GAS SERVICE MANUAL

2008

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1/31/08

If you smell gas, contact MidAmerican Energy at:
1-800-595-5325

Effective: January 31, 2008

GAS SERVICE MANUAL

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COMMUNITIES SERVED

IOWA

Adel
Afton
Agency
Akron
Algona
Alleman
Allison
Alton
Altoona
Alvord
Ankeny
Aplington
Archer
Arthur
Atalissa
Atkins
Attica
Audubon
Aurelia
Avoca
Avon Lake
Badger
Bagley
Barnes City
Battle Creek
Bayard
Beacon
Berwick
Bettendorf
Blue Grass
Bondurant
Bouton
Boyden
Brayton
Bristow
Buffalo
Bussey
Callender
Calumet
Capitol Heights
Carlisle
Carney
Carson
Cedar
Cedar Rapids
Chapin
Charles City
Clarion
Clarksville
Cleghorn
Clive
Coalville
Colfax
Coralville
Cumming
Cylinder
Dakota City
Dallas Center
Danbury
Davenport
Defiance
Denmark
Denver
Des Moines
DeSoto
Dewar
Dexter
Donnellson
Doon
Dumont
Duncombe
Dunkerton
Dunlap
Durant
Eagle Grove
Earlham
Earling
Early
Eddyville
Eldridge
Elk Horn
Elk Run Heights
Elkhart
Elliott
Ely
Emerson
Essex
Evansdale
Exira
Fairfax
Farragut
Fenton
Floyd
Fort Dodge
Fort Madison
Fremont
Galva
Germantown
Gilbertville
Goldfield
Granville
Grimes
Griswold
Hamilton
Hamlin
Hampton
Hancock
Hartford
Harvey
Hedrick
Henderson
Hiawatha
Hills
Hinton
Holstein
Hospers
Hudson
Hull
Humboldt
Ida Grove
Independence
Indianola
Inwood
Iowa City
Irwin
Jamaica
James
Janesville
Jesup
Johnston
Keomah Village
Kesley
Kimballton
Kinglsey
Lake City
Larrabee
Latimer
Lawton
LeClaire
Leighton
LeMars
Linden
Logan
Lohrville
Lone Rock
Long Grove
Lovilia
Lytton
Macedonia
Malvern
Manson
Mapleton
Marcus
Marion
Marne
Martensdale
Melcher-Dallas
Meriden
Merrill
Milo
Minburn
Minden
Mineola
Mingo
Missouri Valley
Mitchellville
Monroe
Montpelier
Moorland
Moscow
Moville
Nashua
Neola
New Hartford
New Sharon
Newell
Newkirk
North Liberty
Norwalk
Oakland
Odebolt
Oskaloosa
Otho
Ottumwa
Oxford
Pacific Junction
Panora
Panorama Park
Park View
Parkersburg
Perry
Pershing
Persia
Plainfield
Pleasant Hill
Pleasant Valley
Pleasantville
Polk City
Portsmouth
Prairie City
Princeton
Raymond
Red Oak
Redfield
Ringstead
Rising Sun
Riverdale
Riverside
Robins Rock Valley
Rockwell
Rockwell City
Runnels
Ruthven
Salix
Saylorville
Schaller
Sergeant Bluff
Sheffield
Shelby
Sheldon
Shell Rock
Shenandoah
Shueyville
Silver City
Sioux City
Sloan
Solon
Spring Hill
Stanton
St. Charles
St. Marys
Stuart
Sutherland
Swisher
Thor
Tiffin
Tracy
Treynor
Twin Lakes
Underwood
University Heights
University Park
Urbandale
Van Meter
Walcott
Walnut
Washburn
Waterloo
Waverly
Wesley
West Des Moines
West Liberty
West Point
Wever
Whiting
Wilton
Windsor Heights
Winterset
Yale

COMMUNITIES SERVED

ILLINOIS

Andalusia
Barstow
Campbells Island
Carbon Cliff
Cleveland
Coal Valley
Colona
Cordova
Coyne Center
East Moline
Edgington
Green River
Hampton
Hillsdale
Illinois City
Joslin
Milan
Moline
Oak Grove
Orion
Osborn
Port Byron
Rapids City
Rock Island
Silvis
Taylor Ridge

SOUTH DAKOTA

Alcester
Baltic
Beresford
Brandon
Canton
Centerville
Colton
Corson
Dakota Dunes
Dell Rapids
Elk Point
Ellis
Flandreau
Gayville
Harrisburg
Hartford
Jefferson
Lennox
McCook Lake
Meckling
Montrose
North Sioux City
Ramona
Salem
Sioux Falls
Tea
Valley Springs
Vermillion
Worthing
Yankton

NEBRASKA

South Sioux City
Dakota City
Dakota County

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GAS SERVICE MANUAL

INTRODUCTION

Purpose

The purpose of this manual is to supply essential information regarding gas installations of MidAmerican Energy Company (MidAmerican Energy or Company) to:

- Customers
- Customer's representatives
- Employees
- Architects
- Engineers
- Contractors

It is the Company's objective to cooperate with and assist customers in obtaining safe, efficient gas service. The Company's facilities will be constructed, installed, maintained and operated in accordance with applicable codes and accepted good engineering practice in the gas industry to ensure, as far as reasonably possible, continuity of service, uniformity in the quality of the service furnished, and the safety of persons and property.

Code Compliance

Information contained within this manual shall not be construed to relieve or lessen the responsibility of the customer or customer's representative from complying with all applicable codes, rules and regulations.

Company Liability

Consistent with the Company's tariff, no inspection by the Company or failure to object to the customer's installation shall render the Company liable for injury or damage resulting from any defective or deficient installation by the customer.

Safety Codes and Regulations

The information in this manual is based upon management-approved interpretation of the intended safe and practical application of the following:

- National Fuel Gas Code (NFPA 54/ANSI Z223.1, latest issue)
- NFPA 501A Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities
- Uniform Mechanical Code
- Pipeline Safety Regulations CFR 49 Part 192
- Regulations of the governing state's utilities commission/board
- MidAmerican Energy Company tariffs

Local governing authorities may impose more stringent requirements than shown in this manual.

All installations shall meet these requirements for design, construction, materials, and maintenance of natural gas fuel piping systems, equipment and related accessories.

Manual Does Not Cover

This manual does not cover gas utility installations that are under the exclusive control of the Company for the purpose of:

- Metering
- Control
- Regulation
- Transmission
- Distribution
- Associated work practices of the Company in the exercise of its function as a utility.

Specific Problems

If you desire to discuss specific problems not covered or resolved by this manual, contact your Company representative or call 1-888-427-5632.

Additional Information

For additional copies of the 2008 Gas Service Manual, contact your Company representative or call 1-888-427-5632.

Additional information on MidAmerican Energy's rates and tariffs, and a current list of the communities served, can be found on our website:

www.midamericanenergy.com

1.0 SAFETY

Purpose

The purpose of this section is to help those working near natural gas to understand the inherent dangers of natural gas, to help prevent damage to customer equipment and property, and to help prevent damage to MidAmerican Energy facilities.

What is Natural Gas

Natural gas is a naturally occurring mixture of combustible hydrocarbon gases (primarily methane) found in underground reservoirs. Natural gas is lighter than air and is colorless, tasteless, and odorless.

Smell of Natural Gas

Natural gas is an odorless gas. An odorant is added to natural gas to produce the familiar "rotten egg" smell.

Dangers of Natural Gas

The presence of all three of the following can produce a natural gas fire or explosion:

- Natural Gas
- Oxygen
- Source of Ignition

If the concentration of natural gas is 5-15% of gas in air and a source of ignition is present, an explosion and/or fire may result. With a concentration of gas in air greater than 15% and a source of ignition present, a fire may result.

Excess Flow Valves

Due to new federal regulations, MidAmerican Energy will install an excess flow valve on all eligible new or rebuilt single family residential service lines. Please contact your Company Representative to learn if your service is eligible.

Emergency Phone Number

If you smell natural gas or suspect a gas leak, immediately evacuate the building and move to a safe location. Avoid doing anything that might produce static or sparks, such as touching any electrical switches, telephones (including cell phones) or smoking. Next, report the leak by calling MidAmerican Energy at:

1-800-595-5325

1.1 SAFETY OF CUSTOMER EQUIPMENT

Customer Responsibility

The customer is solely responsible for all piping and equipment beyond the delivery point. This includes obtaining any necessary safety inspections, tests, and repairs required to ensure safe operation. The delivery point will be the outlet side of the MidAmerican Energy meter set or at the connection to the customer's piping, whichever is further downstream. The Company may refuse or disconnect service without notice for a hazardous condition on the customer's premises.

To help ensure safety, the customer is required to use only piping, equipment and appliances that meet recognized piping, appliance and equipment codes. If any questions concerning the compliance of customer equipment arise, the customer should contact MidAmerican Energy or a local public inspector for assistance.

Protection of Equipment and Piping

When the gas delivery pressure is in excess of 7" water column, the customer is responsible for providing regulation devices downstream of the Company meter to control the delivered pressure. It is the responsibility of the customer to notify MidAmerican Energy prior to making any changes to their system Maximum Allowable Operating Pressure (MAOP).

Inspection of Customer Facilities

MidAmerican Energy may, but is not required or obligated to; inspect customer equipment when turning service on or off, check for gas leaks or venting problems, investigate high or low gas pressure complaints, read meters, relocate meters or perform any other similar utility service.

Any inspection of customer's piping or equipment by MidAmerican Energy is to avoid unnecessary interruptions of service to its customers or prevent damage to MidAmerican Energy property and for no other purpose. The inspection shall not be construed to impose any liability upon the company to the customer or any other person by reason thereof, and MidAmerican Energy shall not be liable or responsible for any loss, injury or damage which may result from the use of or defects in the customer's piping or equipment.

Customer Owned Fuel Piping

MidAmerican Energy does not inspect or maintain customer-owned fuel piping beyond the delivery point. Customer-owned fuel piping must comply with National Fuel Gas Code NFPA 54 requirements or other local codes, whichever is more stringent. To meet these requirements, the customer is responsible for completing periodic leak inspections, completing locates and taking preventative action to control corrosion on metallic pipes. Repairs should be made immediately by a qualified person to correct any unsafe conditions. Check with your local governing authorities.

Approved Appliance Connectors

Older appliance connectors that were made of uncoated brass or aluminum are prone to leaking. These connectors were deemed unsafe by Government officials because of the high instances of leakage. MidAmerican Energy recommends customers have a qualified plumbing and heating dealer replace any uncoated brass connectors with approved connectors certified by the American Gas Association (AGA) and Canadian Standards Association (CSA). Approved connectors are made of either stainless steel or plastic coated metal that conforms to American National Standards Institute (ANSI) Z21.24.

The following CSA and AGA marks indicate that gas appliances and equipment designs meet minimum defined safety and performance standards, including all appropriate ANSI standards, and identifies that the product is certified for use in the United States.

Approved appliance connectors:	Connectors not approved:
CSA approved connectors	**Connectors not approved by CSA**
Stainless steel connectors	**Aluminum connectors**
Coated brass connectors	**Uncoated brass connectors**

For additional information, refer to the following websites:

www.aga.org
www.csa-international.org/certification_marks/

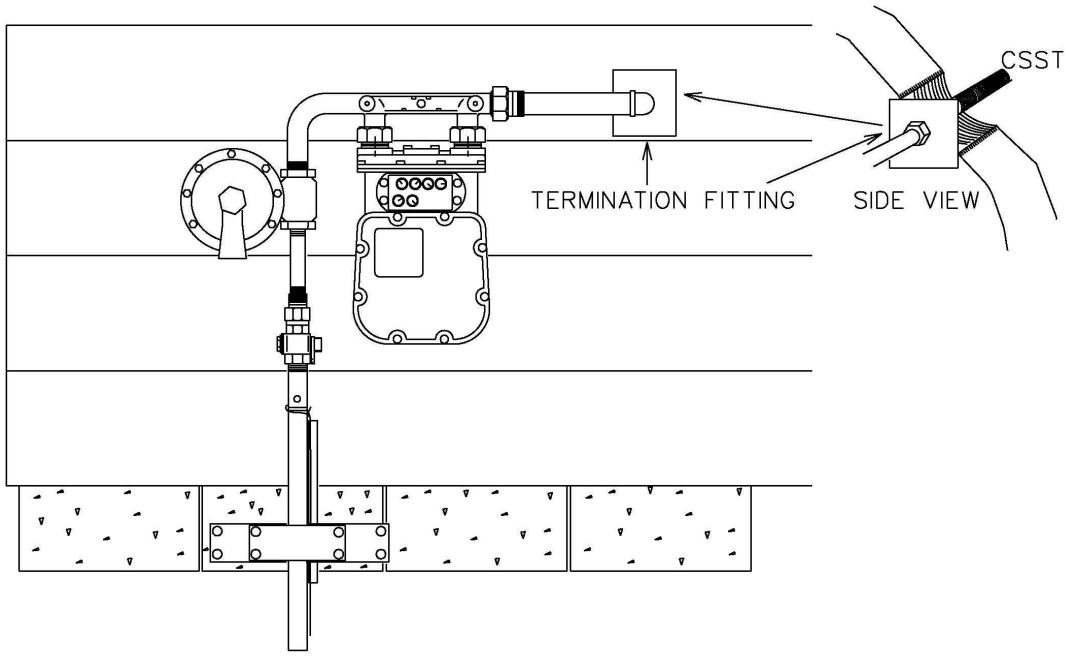
Corrugated Stainless Steel Tubing (CSST)

MidAmerican Energy's standard meter sets utilize the customer's piping for support. To minimize stress on the customer's piping it is recommended that a rigid CSST Termination Fitting on the exterior wall be used to terminate the CSST for piping to the meter inlet. A Termination Fitting at the building wall creates a rigid connection point at the meter set. This is recommended by the manufacturer.

If the customer's CSST piping will be connected directly to MidAmerican's meter set, the contractor will have to inform MidAmerican when applying for service so a special meter support can be installed (see Figure 7, page 32). If MidAmerican is not informed that CSST will be connected to its meter and the meter support has to be changed, there will be a charge to exchange the meter set support bracket.

The gas piping for the meter stub-out may be subject to local requirements such as size, location, and material type. Check with your local governing authorities.

CSST Installed with Termination Fitting (Preferred Method)



1.2 PROTECTION OF MIDAMERICAN FACILITIES

One Call $_{SM}$

It is the excavator's responsibility to make certain that they plan and do their work in such a manner that damage to utility property does not occur. At least two working days before starting actual construction work, call the appropriate "One Call" number to have MidAmerican Energy facilities located. The excavator is responsible to maintain locate marks during construction work. Excavators should never assume the location or depth of underground gas pipelines.

One Call Phone Numbers

NATIONWIDE	**Dial 811 (Preferred)**
Illinois	1-800-892-0123
Iowa	1-800-292-8989
Nebraska	1-800-331-5666
South Dakota	1-800-781-7474
North American Referral	1-888-258-0808

Reporting Damage to Pipelines

If a pipeline of any material or the coating on steel pipelines is damaged in any way, contact MidAmerican Energy immediately so that inspection and/or repair can be made before backfilling. If the pipeline coating is damaged and MidAmerican Energy is notified before backfilling, the repair of the pipeline coating will be done at no charge.

All underground steel gas pipelines have a protective coating that prevents corrosion of the pipe. The protective coating can be damaged by direct contact either by dumping backfill containing broken pieces of masonry, stones or other heavy objects into the excavation or by rubbing or bumping against the coated pipe with digging equipment. Once the coating is damaged, corrosion begins and leaks may quickly develop.

Failure to notify MidAmerican Energy in the event of damage to facilities may:

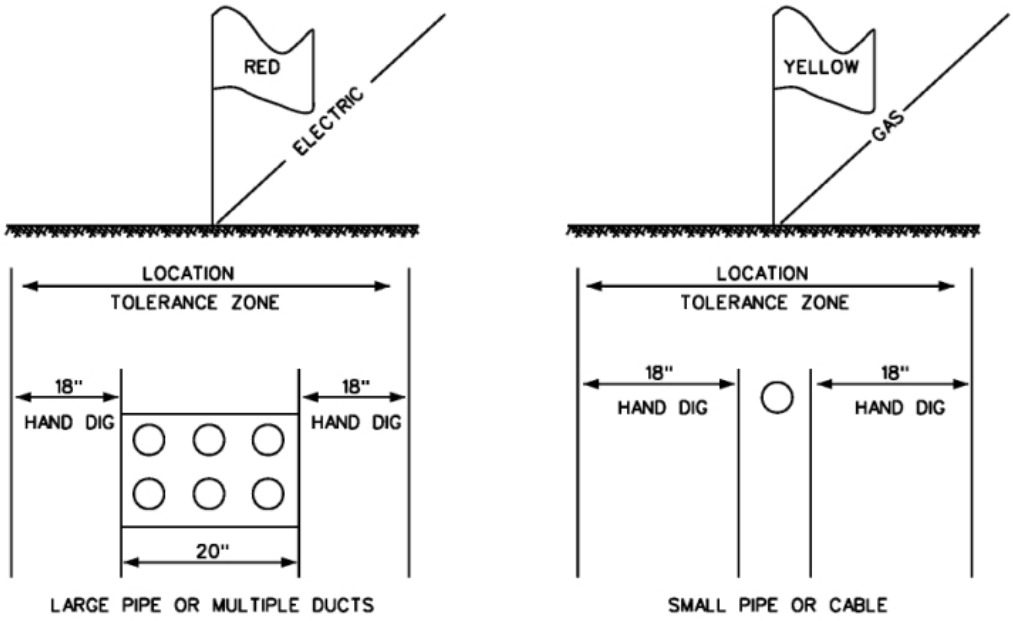
- Jeopardize the safety and the lives of employees and the public
- Violate federal laws under OSHA
- Risk damage to customer's equipment
- Create costly project delays
- Create additional cost due to damage to other facilities

Report any damage, regardless of how slight it might seem.

Exposing Underground Pipelines Near Excavations

All underground facilities located within the excavation or boring area "tolerance zone" shall be exposed by hand digging with extra care and precaution. Machine operators are to have a clear view of all buried facilities. The tolerance zone is the approximate location of underground utility facilities defined as a strip of land at least 3 feet wide, but not wider than the width of the underground facility plus 18 inches on either side of the facility, based upon the markings made by the owner or operator of the facility.

Tolerance Zone (Hand Digging Required)



Blasting

Prior to any blasting operation, MidAmerican Energy shall be notified by calling 1-888-427-5632. MidAmerican Energy will review the request and may require a Company representative to be on site during the blasting operations. One Call shall also be notified 48 hours in advance.

Open Cut Trenching

Gas facilities near open cut trenching must be braced, sheeted, or shored to eliminate damage or stress to pipelines due to settlement or cave-in.

Placement of Spoil

Spoil shall be located to minimize weight that may cause cave-ins on existing utilities. Prolonged storage over and near facilities shall be avoided. Spoil shall be arranged so rocks, concrete and other debris cannot fall into open cut trenches to damage exposed facilities.

Never cover valve or street boxes, manhole covers, and other surface structures on MidAmerican Energy's utility system.

Clearance to Other Facilities

There shall be a minimum of 12" of clearance between the gas facilities and all other underground structures or utilities.

Backfill Requirements Around Pipelines

Backfill material placed around underground utilities should be free from frozen dirt, broken concrete, rocks, or other materials which could cause damage to the pipeline. Backfill must be properly compacted to minimize the possibility of settlement or washout.

2.0 AVAILABILITY AND CHARACTERISTICS OF SERVICE

Introduction

To determine if natural gas is available in your area, please contact MidAmerican Energy at 1-888-427-5632 or your local Company representative.

Extension Policy

All extensions of gas facilities will be installed according to the Company's tariff. See Section 3.0 "Obtaining Gas Service", page 12, in this manual for further information.

Delivery Pressures

The nominal pressure delivered at the outlet of the meter to most customers is approximately 7" water column (0.25 PSIG).

MidAmerican Energy may provide delivery pressure greater than 7" water column upon customer request. The following standard pressures may be available:

- 10" water column
- 0.5 psig (14" water column)
- 1 psig
- 2 psig
- 5 psig
- 10 psig
- 20 psig

Upon inquiry by the customer, other higher delivery pressure options may be available. These special cases may require the execution of a contract between the customer and the Company. Not all pressures are available at all locations. Contact your Company representative for further information.

Average Gross Heating Value

The average gross heating value of gas received by the Company from its suppliers is expected to be approximately 1,000 BTU per cubic foot.

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3.0 OBTAINING GAS SERVICE

Introduction

This section is provided to assist customers, developers, and contractors in determining the requirements for gas main and service extensions. To avoid any unnecessary expense or delay to the customer, it is recommended that a Company representative be contacted at 1-888-427-5632, well before any construction or remodeling begins.

Definitions

Gas main— The natural gas pipeline used for the purpose of delivering and distributing natural gas to or throughout large areas such as subdivisions or developments.

Gas service— The natural gas pipeline from the gas main to the inlet side of the regulator or gas meter for the purpose of serving a customer.

Procedure for Ordering Gas Main

Customer Responsibility

The following information is required for a gas main extension:

- Final plat map (in AutoCad or Microstation format)
- Number of single or multi-dwelling lots
- Location of existing or proposed utilities
- Location of public utility easements
- Site ready date

Company Responsibility

Gas main information is forwarded to Engineering for design. The main extension contribution or advance, if any, is determined. The contribution or advance will be calculated based upon the customers who are expected to attach to the extension and begin service within 30 days, unless a longer time is agreed upon, not to exceed one year.

Customer Contribution or Advance

MidAmerican Energy will send a proposal and a Gas Main Extension Agreement to the customer for review and approval. If approved, customer shall return the signed Agreement along with a check, letter of credit or other surety, where applicable, for payment of the main extension unless the timing of the contribution or advance has been modified by mutual agreement.

A MidAmerican Energy representative will notify the customer if there will be charges for adverse construction conditions or other permit fees as applicable.

Procedure for Ordering Gas Service

Customer Responsibility

The following information is required for a service line installation:

- A completed and signed facility agreement (See Appendix A)
- Site plan
- Location and number of meters required
- Delivery pressure required
- Size and type of gas burning equipment
- Special regulator requirements (boilers, grain dryers)
- Site ready date

Company Responsibility

After the above-mentioned information and forms are received, gas service installation information is forwarded to Engineering to prepare a design and cost estimate. Customer design requests will be accommodated, when possible, within Company rules and regulations.

Customer Contribution

A MidAmerican Energy representative will notify the customer if there will be additional charges for excess footage, adverse construction conditions or other permit fees as applicable.

Temporary Service

If sufficient system capacity exists at the proposed location, temporary service may be available. Before temporary service begins, a customer will need to:

- Sign a written agreement for temporary service for a specified period
- Pay all costs of the installation and removal, less net salvage value of necessary facilities
- Provide a suitable support for the meter and appurtenances
- Receive city or county approval, if needed

Temporary service is not available in Illinois.

Schedule of Work for Main and/or Service

The customer should provide an approximate need date for installation. MidAmerican Energy personnel will inspect site for readiness and, if appropriate, will schedule work to be done. Customer is responsible to have site ready for construction by completing the following items:

- Ground must be within 4" of final grade where MidAmerican Energy facilities are to be installed.
- Meter site ground must be backfilled and properly compacted to prevent settling.
- All material and obstructions must be removed from path where MidAmerican Energy facilities are to be installed.
- A gas riser bracket or meter bracket shall be installed where applicable.
- Curb and gutter or street paving in new plat areas should be installed, as well as water and sewer, before gas mains will be extended.
- Address must be clearly posted at property.
- All necessary easements and permits for gas utilities that are required to be obtained by customer/developer have been obtained.
- The location of any customer-owned underground facilities (i.e. fuel lines, watering systems, satellite TV cables, etc.) must be identified and clearly marked.

Adverse Construction Conditions

MidAmerican Energy will apply an additional charge for all gas main extensions and on some services when adverse construction conditions exist. Typical "adverse construction conditions" include severe ground frost, unusually muddy or rugged terrain, rock or inordinate amounts of unforeseen obstructions. The customer will be notified when it is necessary to apply these charges.

Permits

If customers are located in areas where special permits are required (railroad crossing, interstate crossing, etc.), allow additional time for gas main and service installation. Special permit requirements can extend construction times and expense to the customer.

Residential and Commercial Meter Sets

The gas meter for a new single meter residential or commercial service will be installed as soon as practical after the service line is installed. Each service that is not placed in service upon installation will be secured by locking the service shutoff valve in the closed position to prevent flow of gas to the customer. In addition to locking off the service, the following options may be used:

- A mechanical device or fitting will be installed in the service or meter.
- The customer's piping physically disconnected from the gas supply and the open pipe ends sealed.

Meter Turn On

Meters on new gas service installations will not be turned on until the customer piping is connected to the gas meter outlet. **The plumber, builder or owner must contact MidAmerican Energy at 1-888-427-5632 to initiate a gas service turn on order.** MidAmerican Energy must be contacted a minimum of 48 hours (excluding Saturdays, Sundays and legal holidays) before the gas service turn on is required.

MidAmerican Energy will perform a no-flow check on all meters to be turned on to ensure the customer piping is gas tight. The customer is responsible for the following requirements in order for MidAmerican Energy to perform this check and turn on the gas meter:

- Local inspections must be completed as required.
- All valves are to be in the closed position.
- All pipe ends shall be capped.
- All individual fuel lines on multiple meter sets shall be permanently marked (see page 19).

4.0 REQUIREMENTS FOR SERVICE INSTALLATION

Introduction

This section relates MidAmerican Energy's requirements for gas service piping installations.

Number of Service to a Building

Only one service will be run to a building. In the case of several adjacent buildings occupied by one customer, only one service will be run to the group of buildings. Exceptions may be granted by Engineering.

Only one service will be installed to a building having a common basement or one tenant. When the basement is not common, such as a double story house, apartment, or multiple story building, service may be installed to each separate ground level occupancy unit or be located to facilitate the banking of meters for adjacent or other occupancy units.

Service lines will not be extended inside a building from one tenant's basement to another tenant's basement, or from one building to another.

Where buildings are of slab construction, services may be installed to each ground level occupancy unit or be located to facilitate the banking of meters for adjacent or other occupancy units. One service shall be installed for each group of ground level units having a common tenant. If the building has more than one floor level, all meters for occupancy units above the first floor shall be installed at ground level.

Service Line Access

MidAmerican Energy's gas service line will generally be installed in a straight line perpendicular to the gas main and shall be routed in a manner as to be accessible for future maintenance.

Gas service lines will not be installed beneath buildings or structures. When a building or structure is proposed to be constructed over a service line, the service will be moved at the customer's expense. See Section 7.0, "Relocation of Company Gas Facilities", page 22, in this manual for further information.

Decks, porches, gazebos, pools, plantings, etc. shall not be located over or within 3 feet of the service line. Please notify MidAmerican Energy at 1-888-427-5632 before installing any of these items within this area.

Shut-Off Valves

All new gas service lines shall have an accessible shut-off valve outside of the building. MidAmerican Energy will install and maintain this valve.

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5.0 REQUIREMENTS FOR GAS METER SETS

Introduction

This section relates MidAmerican Energy's requirements for gas meter installations.

Advance Notice

The customer or the customer's agent is requested to consult MidAmerican Energy in advance on any matters pertaining to the location and type of meter installation required, the size and operating characteristics of their gas burning equipment, the gas pressures available, and the plans and procedures for connecting the equipment. See Section 3.0, "Obtaining Gas Service", page 13, in this manual for more information.

Meter Location

All meters shall be installed outdoors at a point agreeable to the property owner or building contractor and MidAmerican Energy. Each meter must be installed in a readily accessible location, generally on the front one-half of the structure (See Figure 1), and be protected from damage. If it is not possible to meet these requirements, the installation becomes a special case and it shall be referred to Engineering for approval of an alternate location or type of installation.

Multiple Meter Locations

One metering location will be allowed for each building. Exceptions may be approved by Engineering.

Prohibited Meter Locations

Meters will not be located in inaccessible areas or those subject to relocation.

The meter shall not be located where the flow from a downspout overflow or sump pump line could cause an accumulation of ice on the gas meter set.

Protection of Meter Facilities

To provide customer safety, all meter facilities subject to vehicular traffic shall be protected from damage. Protection against damage is the responsibility of the customer. The customer shall furnish and install physical barriers to protect the meter facilities as specified by the Company (See Figure 19).

Clearance Requirements for Regulator Vent

For vertical and horizontal clearance requirements from the regulator vent, refer to Figures 2 through 5. If clearances are not maintained, the customer shall pay all necessary expenses to bring the installation into compliance.

Local codes may require a greater clearance. Check with your local governing authorities.

Required Working Space

The customer shall provide adequate working space for MidAmerican Energy personnel to maintain the metering and regulating equipment as follows:

- Six (6) feet head clearance above grade
- Three (3) feet from the front of the meter
- One (1) foot to either side of the meter
- Six (6) feet of level ground to any retaining walls or other sudden drop offs in front of the meter

Typical Meter Configurations

The various configurations and dimensions of MidAmerican Energy's typical meter sets are shown in Figures 6 through 18. The meter sets shown are based upon the load capacity required by the customer.

Other metering configurations may be available due to special load requirements or due to limited construction space. A Company representative shall approve all alternate meter configurations.

Delivery Point

The delivery point will be the outlet side of the MidAmerican Energy meter set or at the connection to the customer's fuel piping, whichever is further downstream. Fuel line piping shall be installed in a manner that avoids undue strain on the meter.

Marking Multiple Meters at one Location

MidAmerican Energy will not install multiple meters at one location unless the customer's individual fuel lines are clearly and permanently marked or identified by address, apartment number, unit number, etc.

Permanent marking methods include paint, metal tags, or another method approved by the Company representative. Felt tip "permanent" markers are not acceptable as these quickly fade.

6.0 MANUFACTURED HOMES

Introduction

The requirements of this section shall apply to the installation and connection of gas service to all manufactured homes (mobile homes, trailers, manufactured homes).

Safety Codes & Regulations

All gas appliances installed must meet specification of the NFPA 501A for Manufactured Home Installations and NFPA 54 National Fuel Gas Code. Gas water heaters and furnaces must be designed and labeled for mobile home use. Where the local governing authorities have established more stringent requirements, those requirements shall prevail.

Customer Owned Fuel Piping

MidAmerican Energy does not inspect or maintain customer-owned fuel piping beyond the delivery point. MidAmerican Energy recommends calling a qualified plumbing and heating dealer for an inspection. Customer-owned fuel piping must comply with National Fuel Gas Code NFPA 54 and 501A requirements or other local codes, whichever is more stringent. Check with your local governing authorities.

To meet these requirements, the customer is responsible for completing periodic leak inspections and taking preventative action to control corrosion on metallic pipes. Repairs should be made immediately to correct any unsafe conditions.

Easement Requirements

Installation of gas mains in manufactured home parks must be made on platted public utility easements or on a specifically granted gas easement to MidAmerican Energy. MidAmerican Energy requires that easements be obtained for all gas mains before installation of any facilities. Mains shall be installed in manufactured home parks along the street or roadway, not on the back lot line, unless otherwise authorized by Engineering.

Placement of Manufactured Home Near Gas Facilities

Customer must provide adequate space for installation of Company facilities. A manufactured home must maintain a distance of five feet from the gas main or gas service. If this is not practical, contact your Company representative.

Should a manufactured home or other structure (shed, garage, etc.) be placed over a gas main or service, it must be moved. If this is not practical, the customer or property owner shall reimburse the Company for relocating the gas main or service.

6.0 MANUFACTURED HOMES, Continued

Location of Service Termination

MidAmerican Energy will install the service riser at the side of the manufactured home. Services will terminate within the rear third of the manufactured home pad from the roadside of the home.

Anchoring

Manufactured homes shall be properly anchored prior to the meter being turned on.

Connectors

Connectors between the meter outlet and the manufactured home shall be a flex-type connector approved by A.G.A. or C.S.A. for outdoor use. Other connectors may be allowed by local governing authorities. The customer shall furnish and install this connector.

7.0 RELOCATION OF COMPANY GAS FACILITIES

Introduction

The customer shall notify Company in advance of any work that may require the relocation of Company facilities such as:

- Building additions or remodeling
- Decks
- Garages
- Landscaping

Relocation of Gas Facilities

The customer or property owner shall reimburse the Company for the costs incurred in relocating the Company facilities under the following conditions:

- Modifications for the convenience of the customer or property owner.
- Structural changes to an existing building or addition of a new building which would result in a safe service piping arrangement becoming hazardous according to Company standards.
- Meter or meter shutoff valve has been buried due to customer backfilling of the area.

Meter Relocations

When a customer requests a gas meter to be moved, the customer may be charged for the relocation. Additionally, the customer is required to have a qualified contractor install all necessary customer-owned fuel line piping to the new delivery point. A city/county inspection may also be required.

If MidAmerican performs a planned replacement of the customer's gas service within 12 months of the meter being moved from inside to outside, the customer will be refunded the MidAmerican charges.

Authorization

Written authorization shall be obtained from the customer or property owner before work is started. Billing shall be based on an estimate of cost prepared by a Company representative.

The entire cost of the relocation will be billed to the customer unless the modification is mutually beneficial. In such instances, the cost may be shared on a basis agreeable to both the customer or property owner and the Company.

8.0 DIVERSION OF SERVICE OR TAMPERING

Introduction

MidAmerican Energy is legally authorized through our tariffs to recover losses associated with diversion of service, unauthorized use of service, etc.

Unauthorized use of service occurs when a person receives benefit of metered utility service without MEC's consent. Diversion of service is illegally tampering with or bypassing MEC's equipment with the intent of stealing/ benefiting from un-metered utility service. Tampering is interfering with the operation of Company Equipment.

Prohibited Actions

The following actions are prohibited:

- Opening or damaging Company locks
- Breaking/removing seals on meters or regulators
- Tampering with, moving, or removing Company equipment
- Bypassing the meter
- Interference with operation of Company equipment
- Unauthorized work performed on meter installations or other property of the Company

Disconnection

The Company may disconnect service to the customer without notice in the event of such diversion or tampering. In such cases, the meter and metering equipment may be removed.

Customer Cost

The customer shall be responsible for payment of all costs incurred as a result of unauthorized use, diversion of service or tampering. The customer may also be back-billed for estimated/approximate consumption charges and the customer may also be required to relocate their gas meter and associated service to the outside of the premises to allow 24-hour access to the meter. This will be done at the customer's expense. Service will not be restored until all required payments are received.

Documentation

Each incident will be documented on the customer's account. Incidents may be reported to local authorities.

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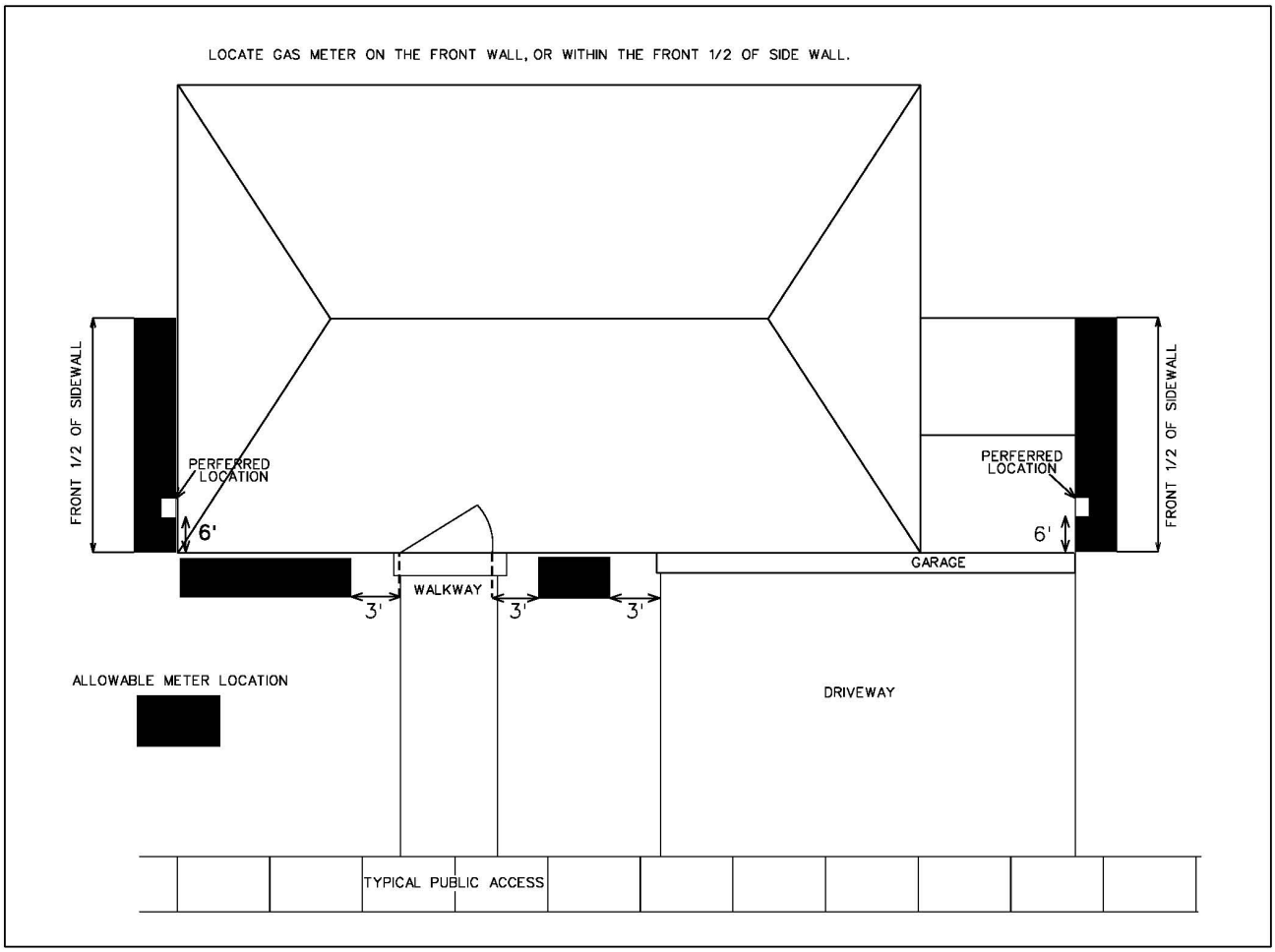
FIGURES

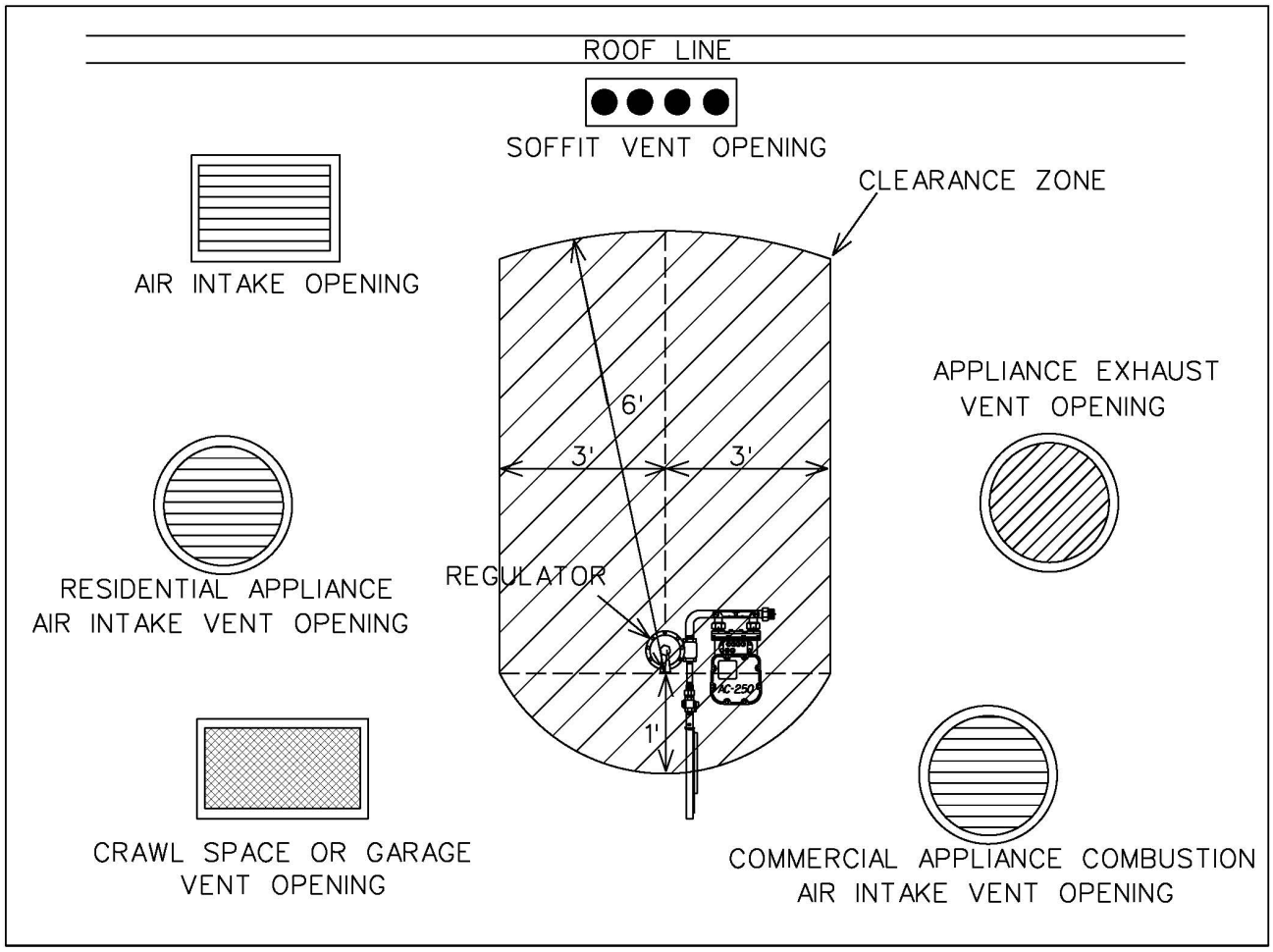
Figure 1
Preferred Location of Gas Meter Set



NOTES:

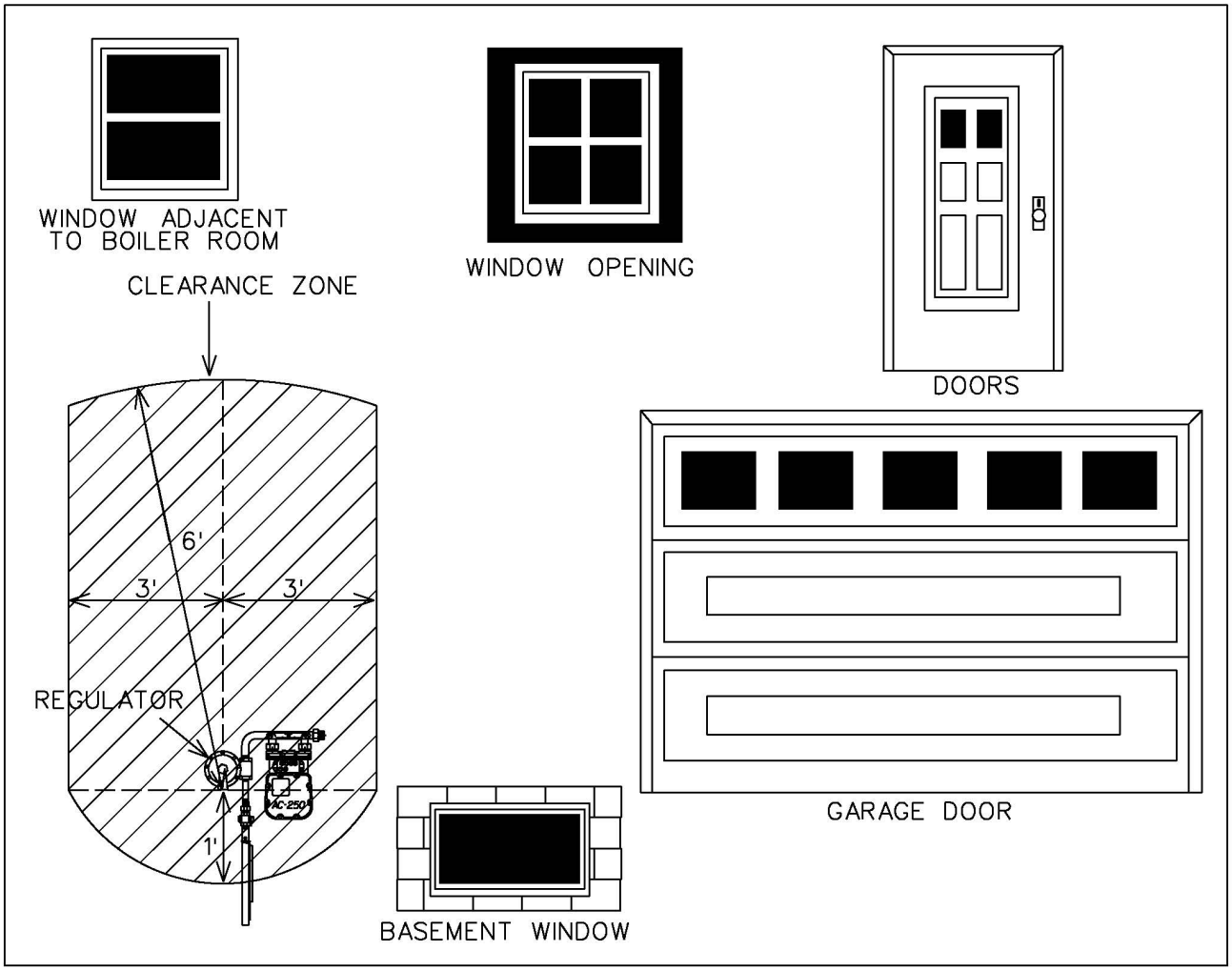
1) Preferred meter location is along a side wall, 6 feet back of the front corner as shown.
2) Meter sets will not be approved on the back side of a structure, including behind a garage.
3) All meters subject to vehicular traffic will be protected from damage (see Figure 19, "Meter Barricade Requirements".
4) Plantings, landscaping, retaining walls or other structures should be placed as to not prohibit MidAmerican Energy personnel from easily accessing the meter and shut-off valve.

Figure 2
Clearance Zone Requirements from Vents and Air Intakes



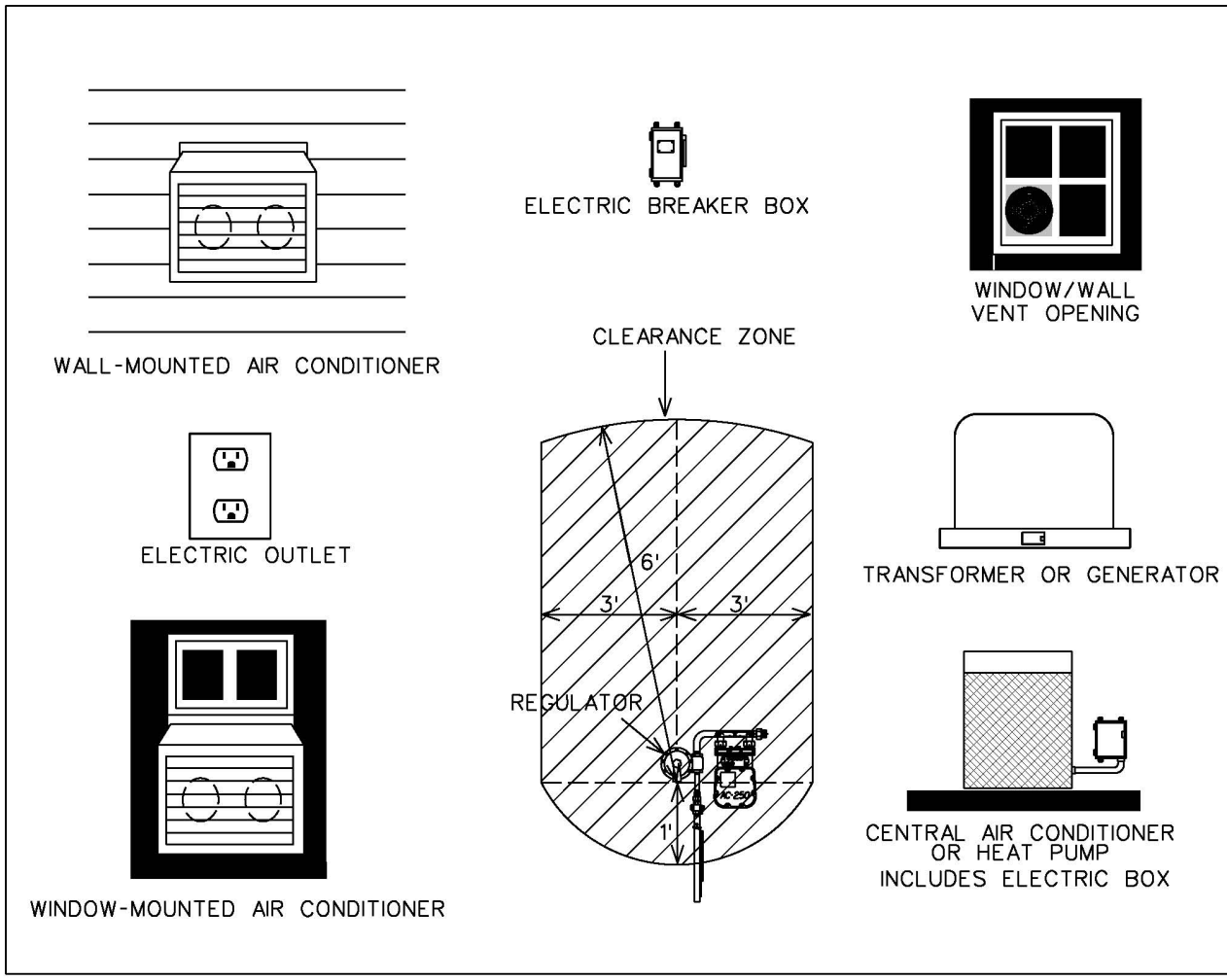
NOTE:
Local codes may require a greater clearance. Check with your local governing authorities.

Figure 3
Clearance Zone Requirements from Doors and Windows



NOTE:
1) Clearance requirement applies only to windows/doors that can be opened.
2) Local codes may require a greater clearance. Check with your local governing authorities.

Figure 4
Clearance Zone Requirements from Electrical Equipment



NOTE:
Local codes may require a greater clearance. Check with your local governing authorities.

Figure 5
Clearance Zone Requirements from Electric Meter Socket

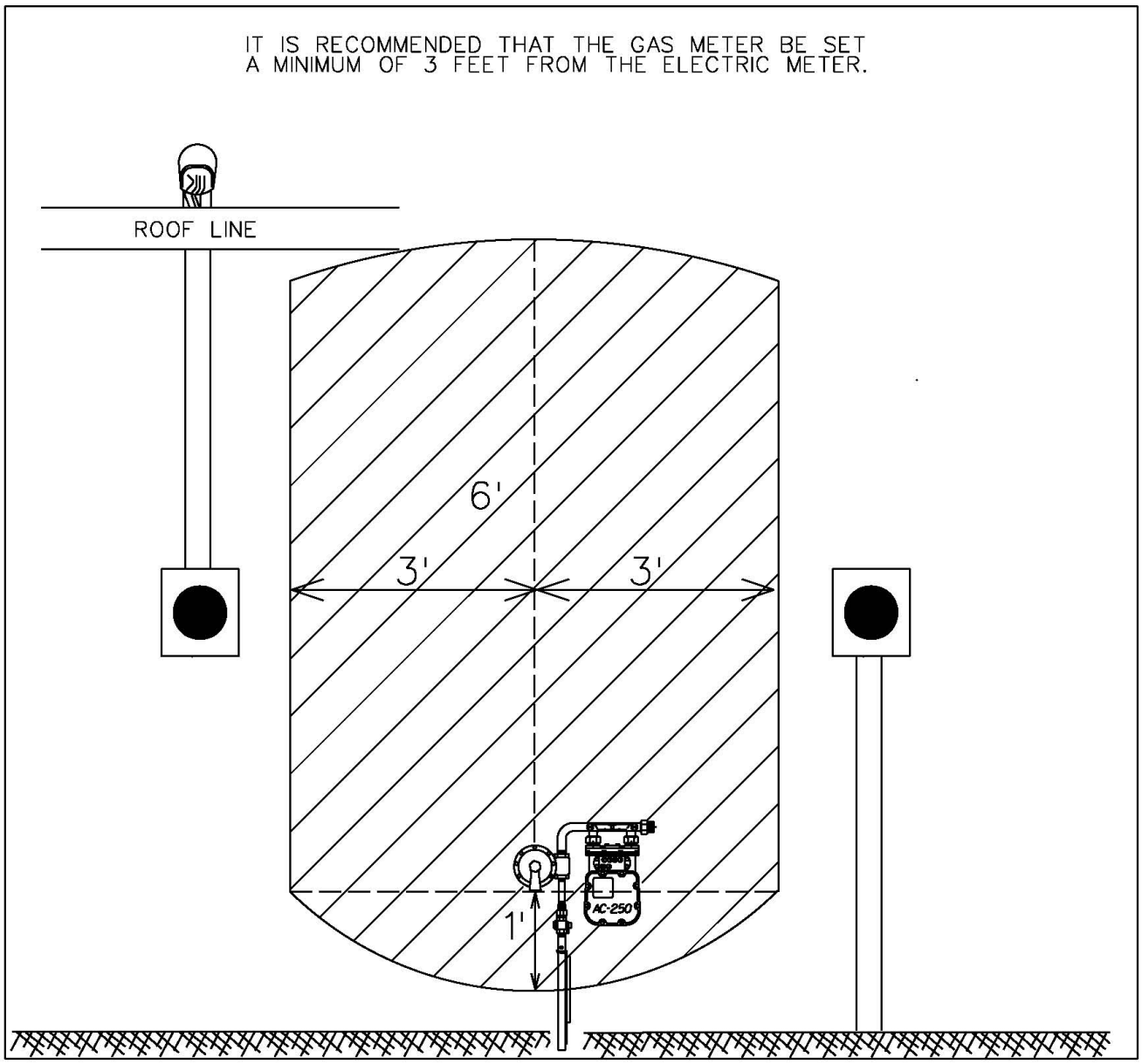
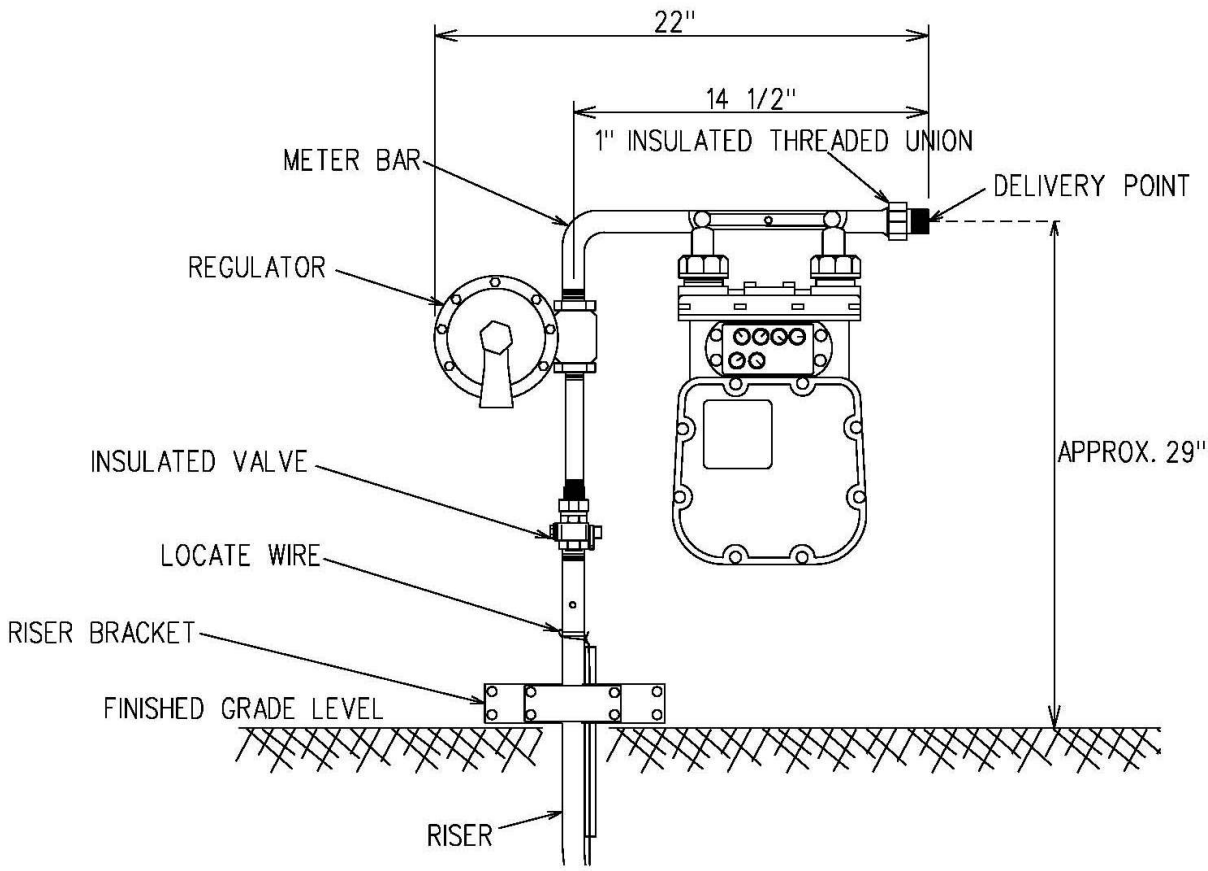
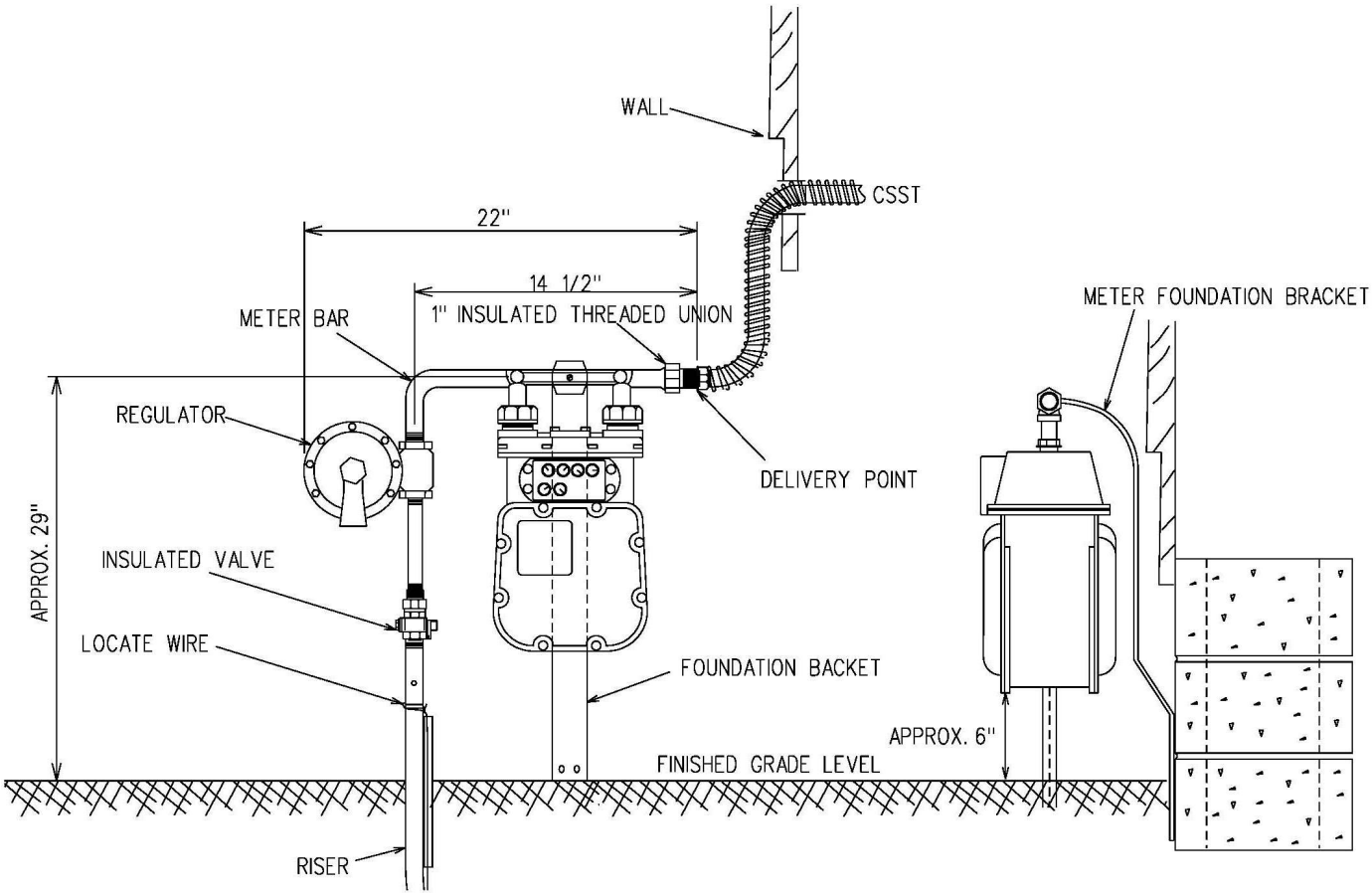


Figure 6
Typical Residential Meter Set



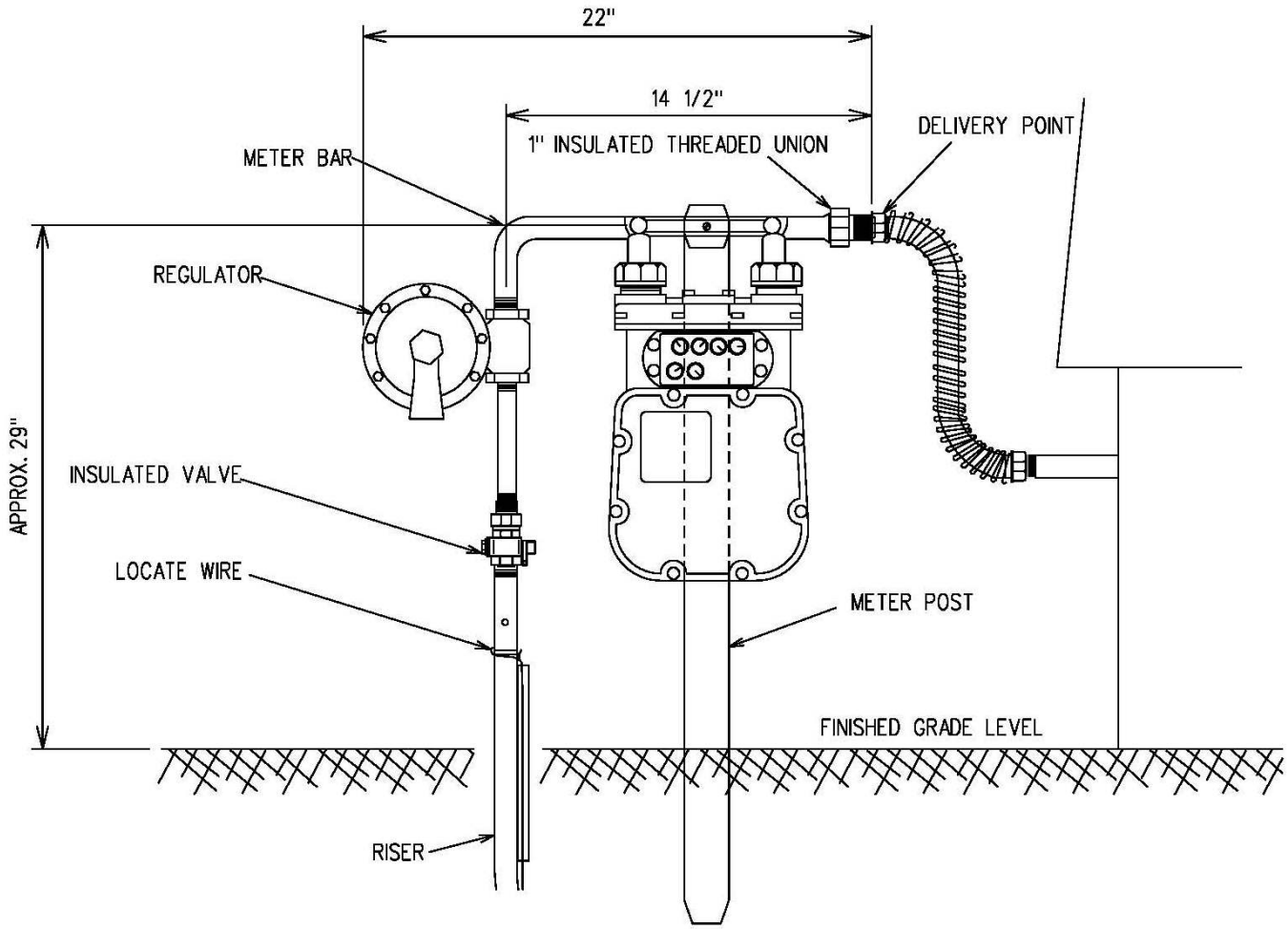
NOTES:
1) Gas riser bracket shall be installed with the bottom of the bracket at final grade level.
2) Riser bracket shall be attached to the building using four (4) bolts.
3) Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.

Figure 7
Alternative Residential Meter Set for Flexible Customer Piping



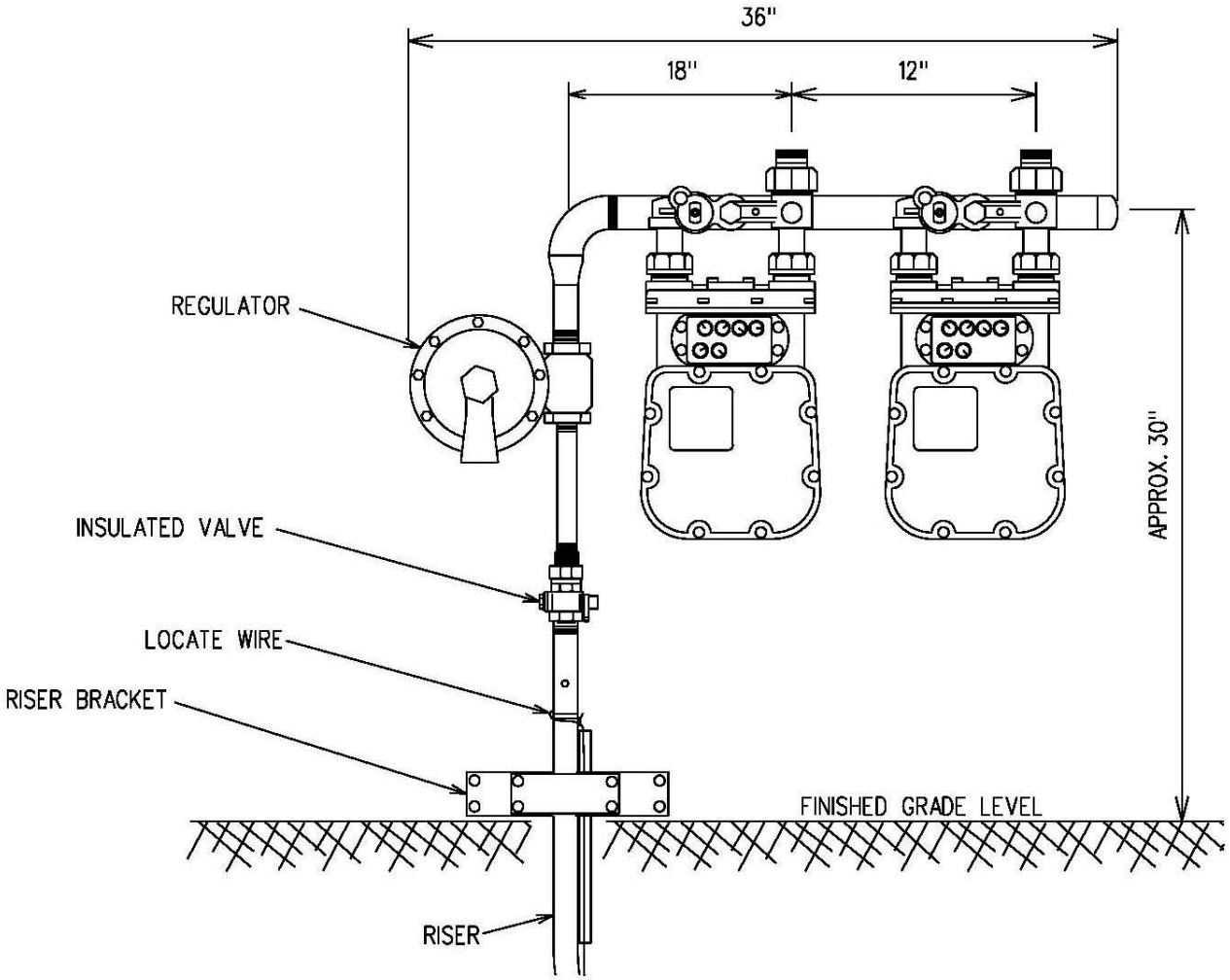
NOTE:
Customer shall notify the local Company Representative when using flexible tubing (CSST) as this installation requires a special foundation bracket.

Figure 8
Alternative Residential Meter Set for Manufactured Homes



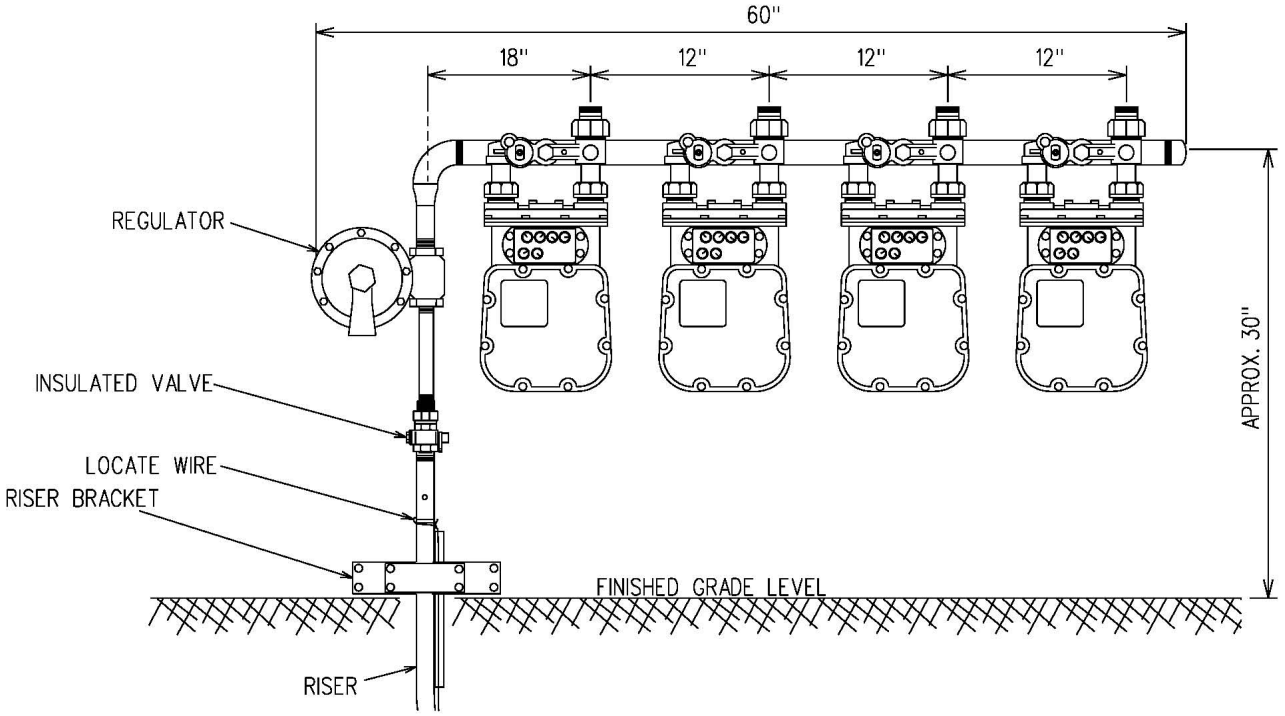
NOTES:
1) Customer shall supply the flex-type connector from Delivery Point to the homes fuel piping.
2) MidAmerican Energy will supply and install the required meter post.

Figure 9
Typical 2-Meter Manifold



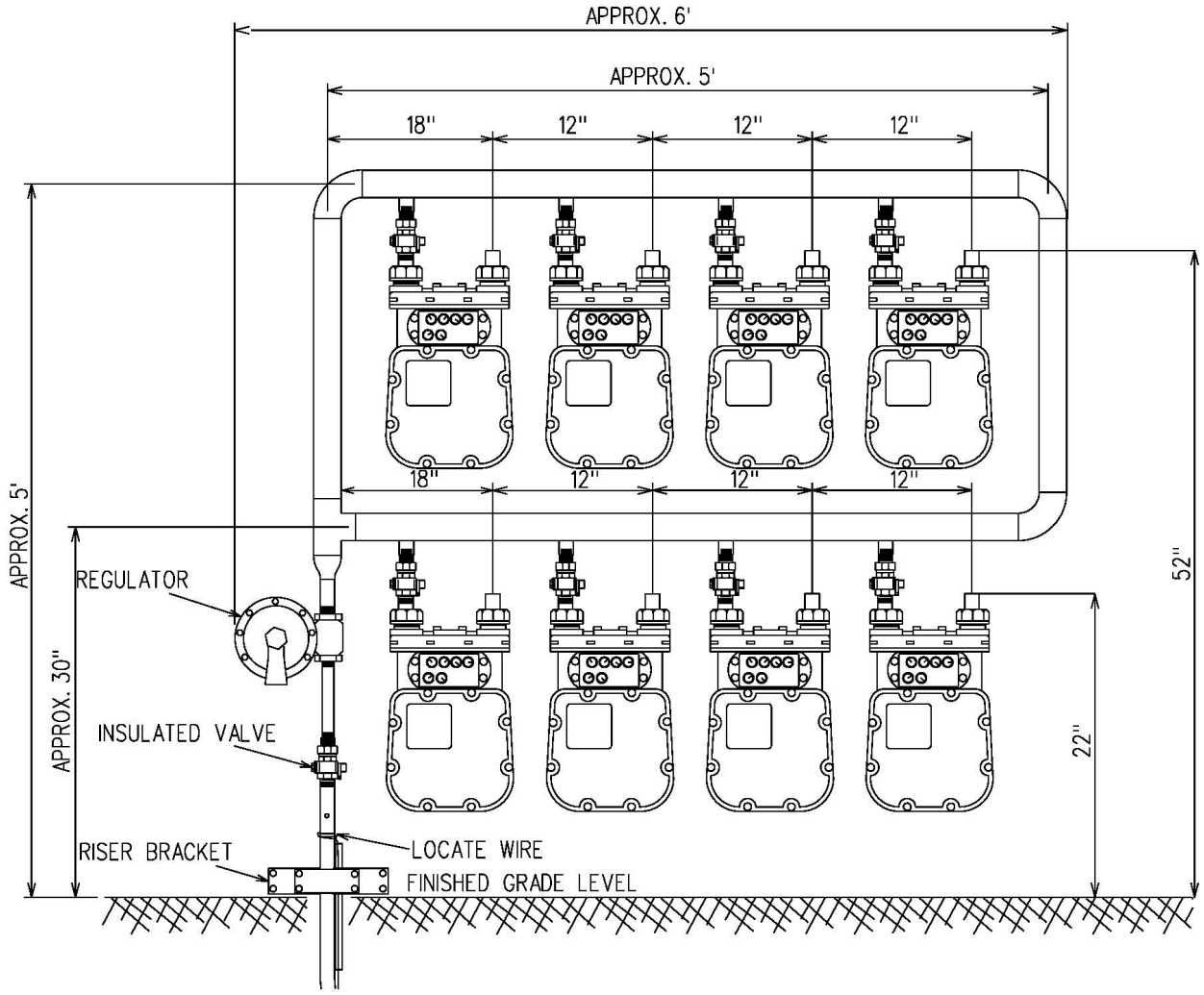
NOTES:
1) Gas riser bracket shall be installed with the bottom of the bracket at final grade level.
2) Riser bracket shall be attached to the building using four (4) bolts.
3) Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.

Figure 10
Typical 4-Meter Manifold



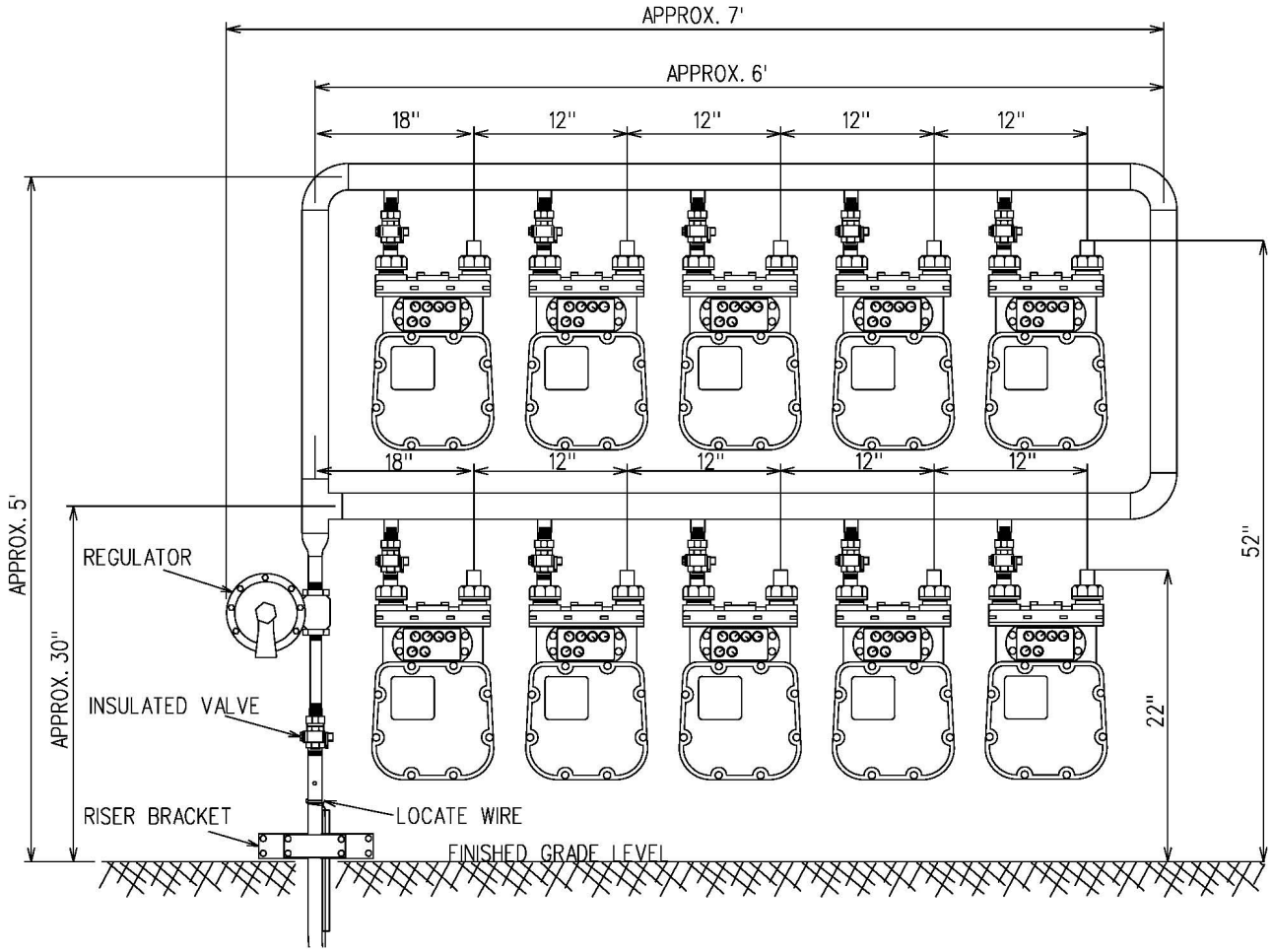
NOTES:
1) Gas riser bracket shall be installed with the bottom of the bracket at final grade level.
2) Riser bracket shall be attached to the building using four (4) bolts.
3) Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.

Figure 11
Typical 8-Meter Manifold



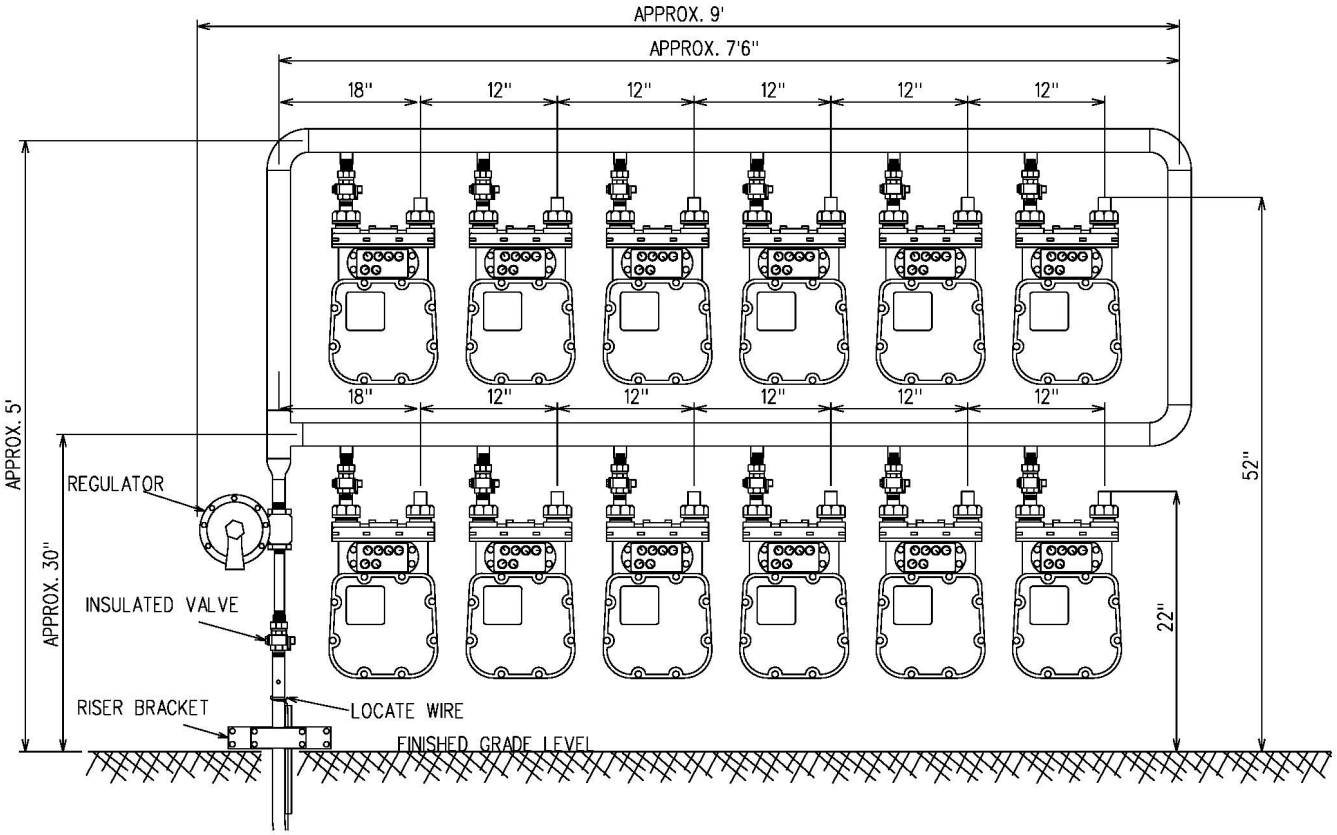
NOTES:
1) Gas riser bracket shall be installed with the bottom of the bracket at final grade level.
2) Riser bracket shall be attached to the building using four (4) bolts.
3) Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
4) MidAmerican Energy will install an additional support bracket on the end of the meter set.

Figure 12
Typical 10-Meter Manifold



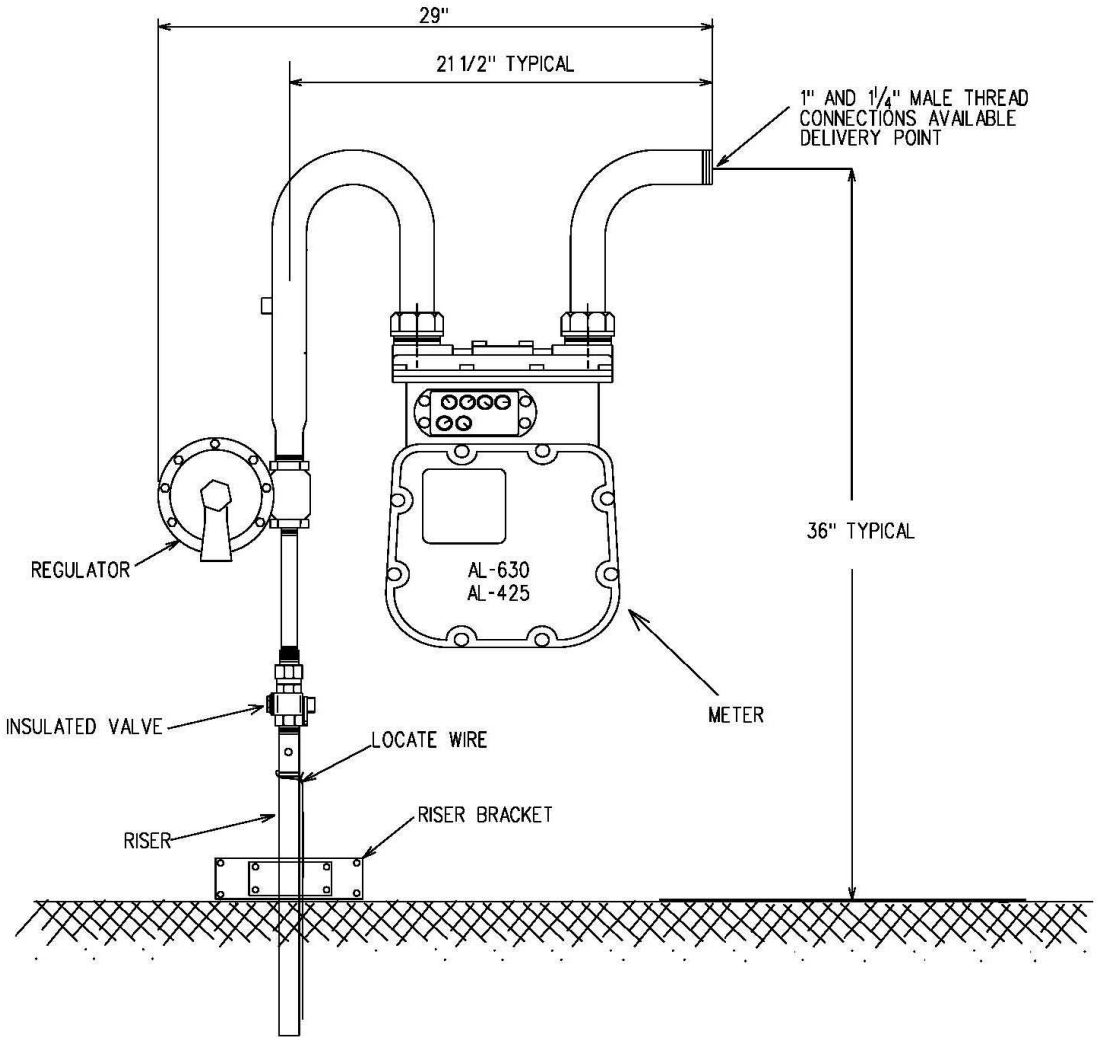
NOTES:
1) Gas riser bracket shall be installed with the bottom of the bracket at final grade level.
2) Riser bracket shall be attached to the building using four (4) bolts.
3) Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
4) MidAmerican Energy will install an additional support bracket on the end of the meter set.

Figure 13
Typical 12-Meter Manifold



NOTES:
1) Gas riser bracket shall be installed with the bottom of the bracket at final grade level.
2) Riser bracket shall be attached to the building using four (4) bolts.
3) Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
4) MidAmerican Energy will install an additional support bracket on the end of the meter set.

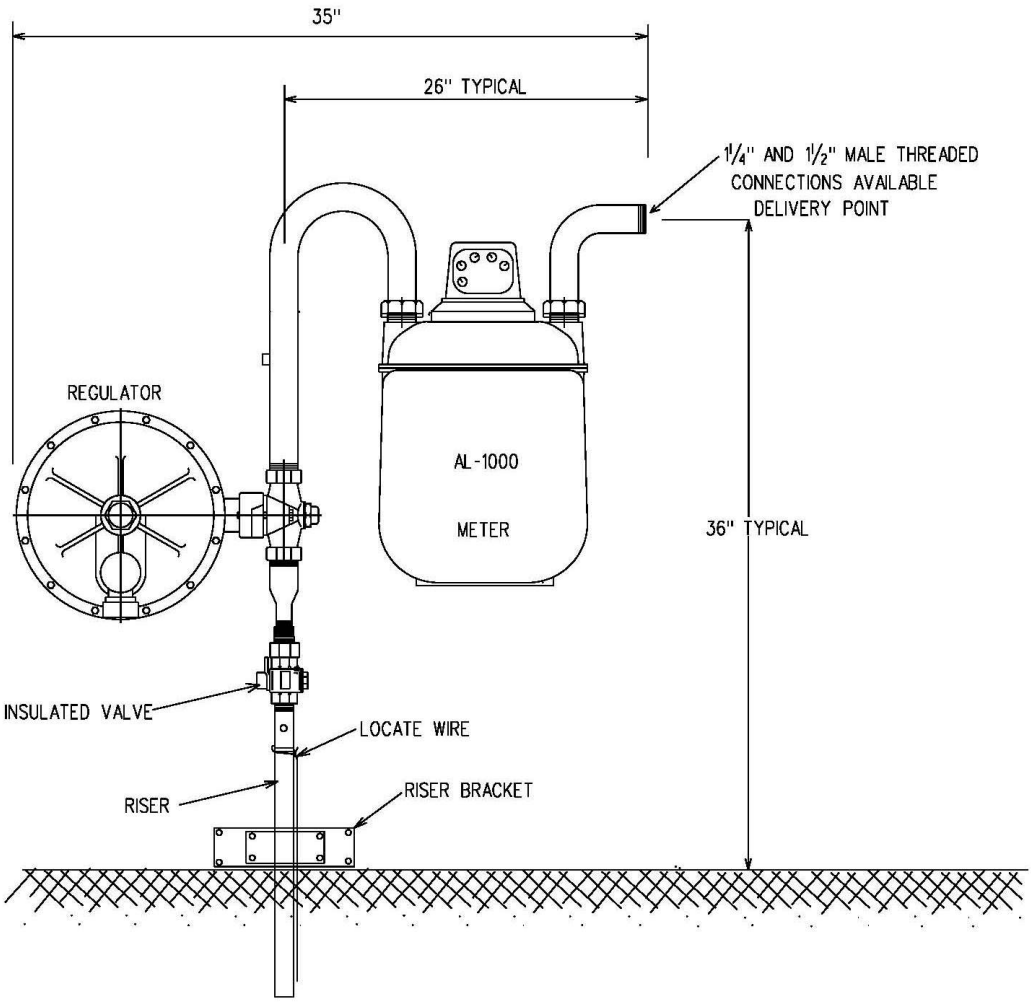
Figure 14
Typical Meter Set for Loads of 300 to 800 CFH



NOTES:

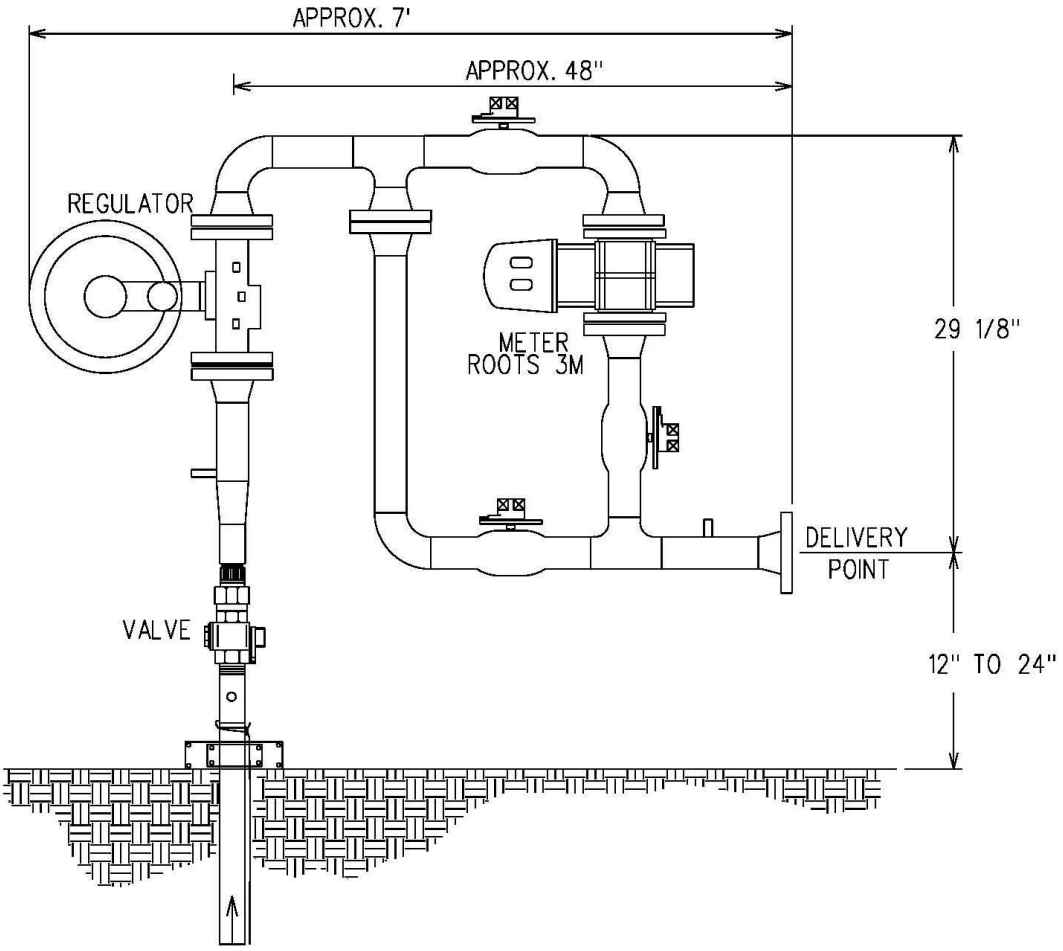
1) Gas riser bracket shall be installed with the bottom of the bracket at final grade level.
2) Riser bracket shall be attached to the building using four (4) bolts.
3) Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
4) MidAmerican Energy may require an additional support bracket to be placed on the end of the meter set.

Figure 15
Typical Meter Set for Loads of 800 to 1500 CFH



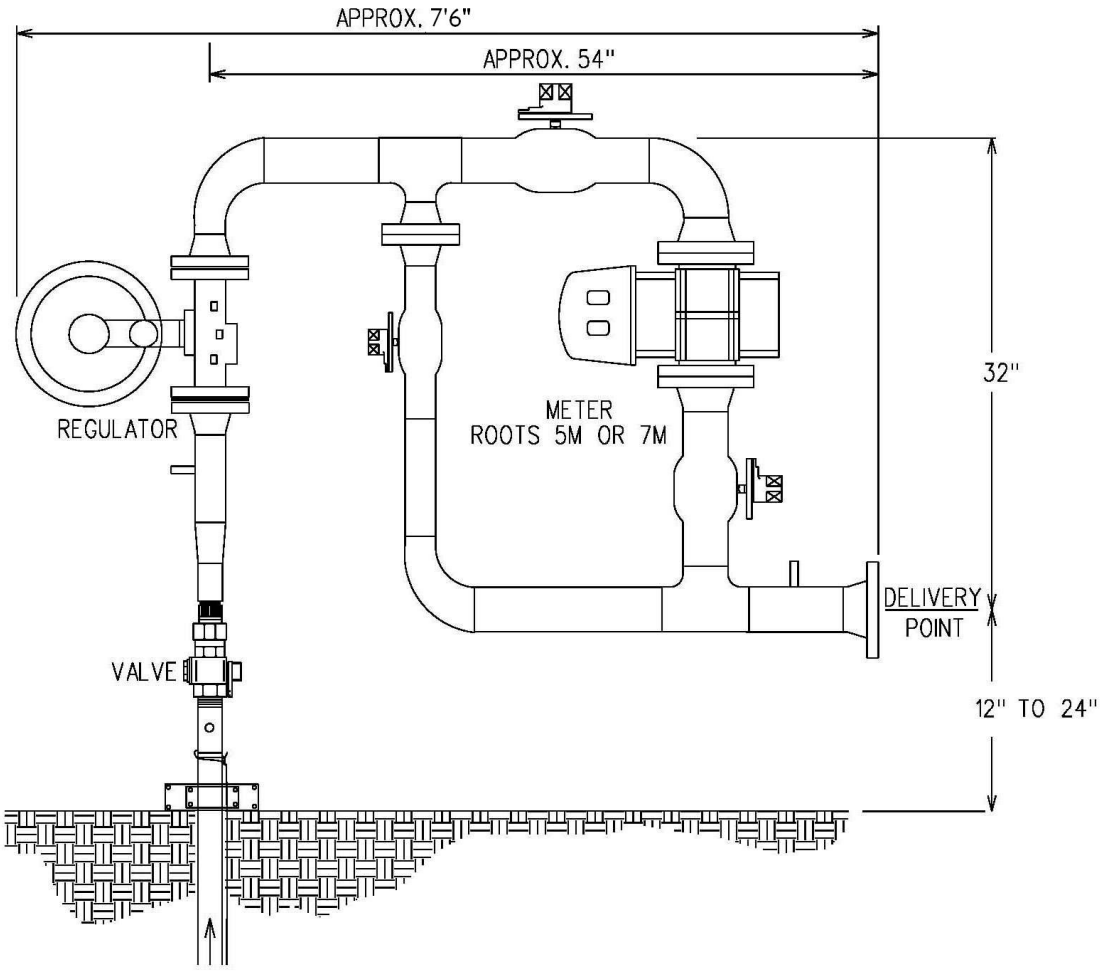
NOTES:
1) Gas riser bracket shall be installed with the bottom of the bracket at final grade level.
2) Riser bracket shall be attached to the building using four (4) bolts.
3) Anchors or suitable masonry fasteners shall be used to prevent pull-out of the bracket.
4) MidAmerican Energy may require an additional support bracket to be placed on the end of the meter set.

Figure 16
Typical Meter Set for Loads of 1500 to 3000 CFH



NOTES:
1) Meter set length and height may vary. Consult a Company Representative to discuss space required for meter set.
2) Height of customer fuel piping is required to be between 12” and 24” above final grade.
3) Delivery point is a 2” raised face flange or 2” threaded connection. Consult a Company Representative to determine which method is to be used.

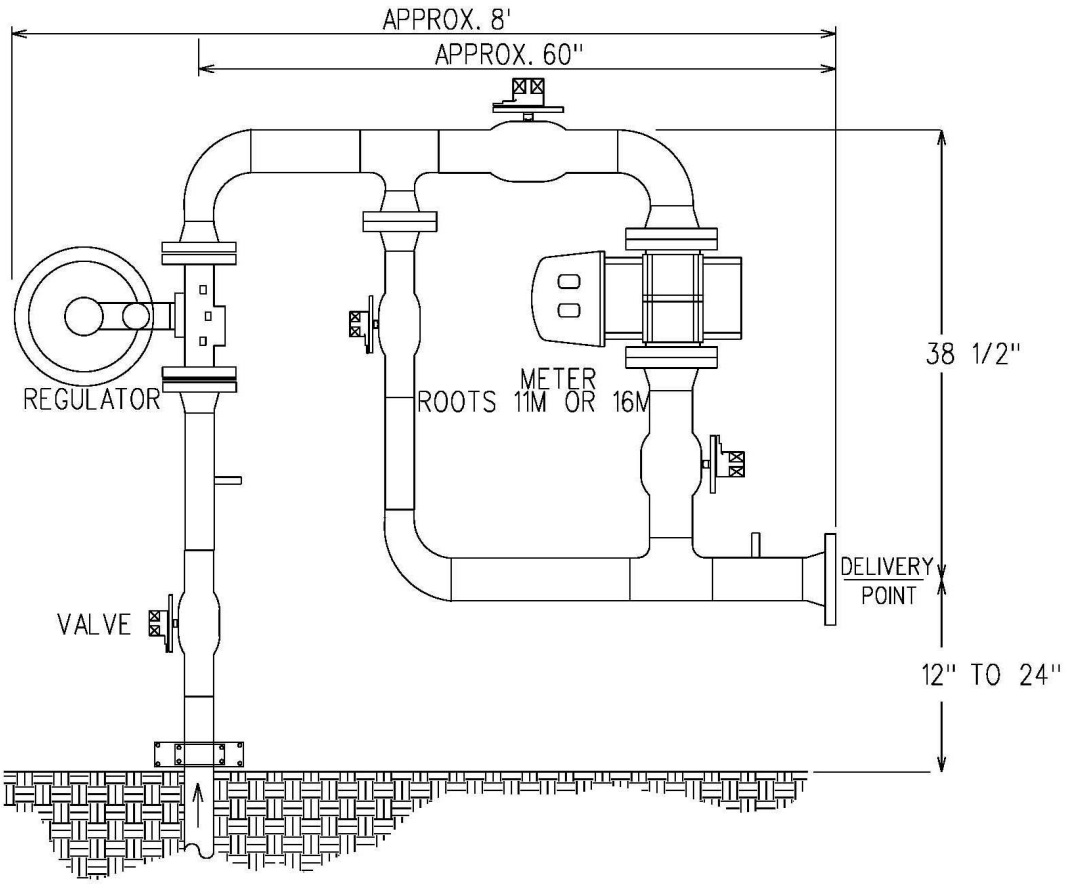
Figure 17
Typical Meter Set for Loads of 3500 to 7000 CFH



NOTES:

1) Meter set length and height may vary. Consult a Company Representative to discuss space required for meter set.
2) Height of customer fuel piping is required to be between 12” and 24” above final grade.
3) Delivery point is a 3” raised face flange or 3” threaded connection. Consult a Company Representative to determine which method is to be used.

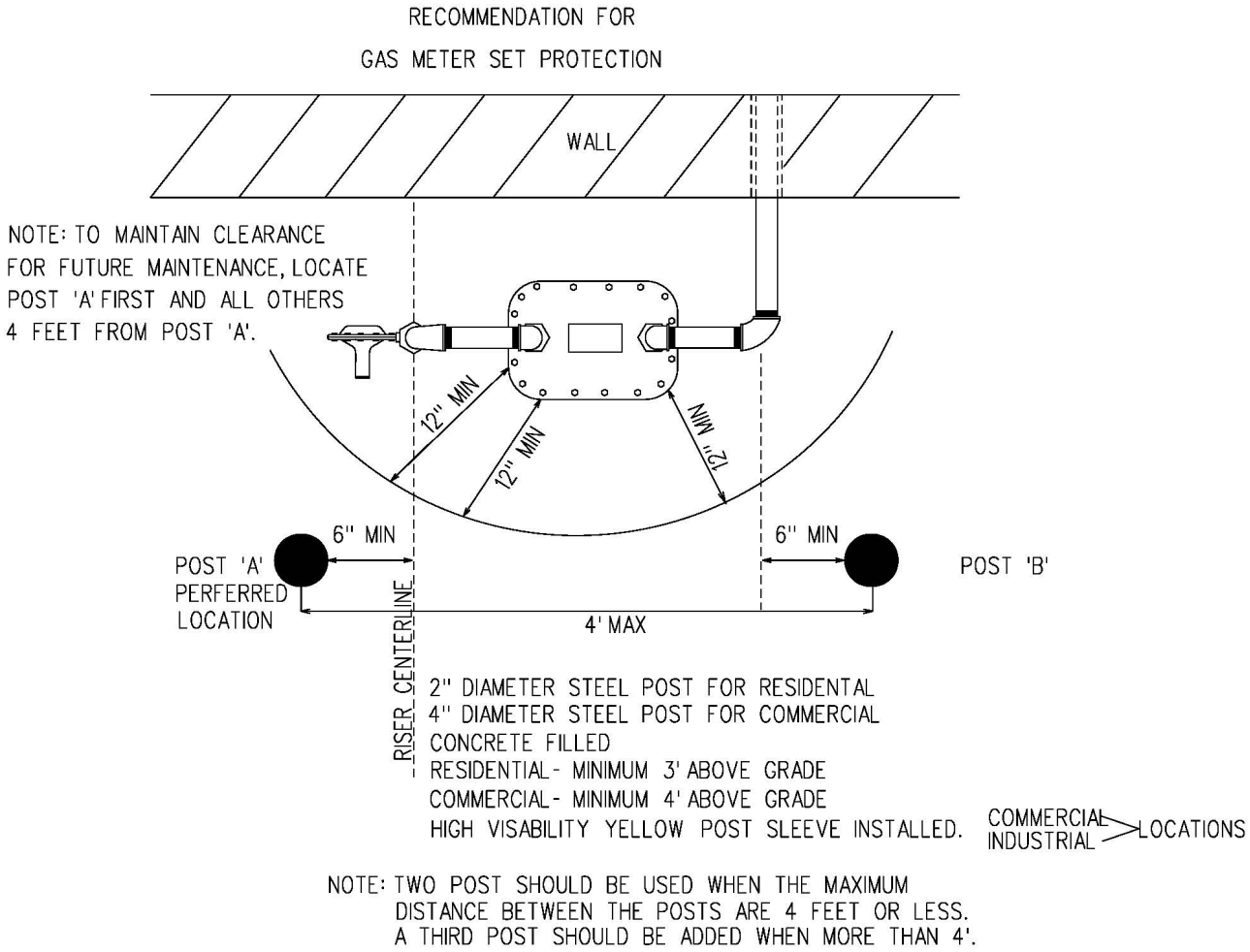
Figure 18
Typical Meter Set for Loads of 7500 to 16000 CFH



NOTES:

1) Meter set length and height may vary. Consult a Company Representative to discuss space required for meter set.
2) Height of customer fuel piping is required to be between 12” and 24” above final grade.
3) Delivery point is a 4” raised face flange or 4” threaded connection. Consult a Company Representative to determine which method is to be used.

Figure 19
Meter Barricade Requirements


RECOMMENDATION FOR
GAS METER SET PROTECTION
WALL
NOTE: TO MAINTAIN CLEARANCE FOR FUTURE MAINTENANCE, LOCATE POST 'A' FIRST AND ALL OTHERS 4 FEET FROM POST 'A'.
12" MIN
12" MIN
12" MIN
6" MIN
6" MIN
POST 'A' PERFERRED LOCATION
POST 'B'
4' MAX
RISER CENTERLINE
2" DIAMETER STEEL POST FOR RESIDENTAL
4" DIAMETER STEEL POST FOR COMMERCIAL
CONCRETE FILLED
RESIDENTIAL - MINIMUM 3' ABOVE GRADE
COMMERCIAL - MINIMUM 4' ABOVE GRADE
HIGH VISABILITY YELLOW POST SLEEVE INSTALLED.
COMMERCIAL
INDUSTRIAL
LOCATIONS
NOTE: TWO POST SHOULD BE USED WHEN THE MAXIMUM DISTANCE BETWEEN THE POSTS ARE 4 FEET OR LESS. A THIRD POST SHOULD BE ADDED WHEN MORE THAN 4'.

APPENDICES

APPENDIX A
Gas/Electric Service Facility Application Agreement (Front)

2-100
11-12-07

MidAmerican Energy

GAS and/or ELECTRIC SERVICE FACILITY APPLICATION AGREEMENT

ACCOUNT NUMBER _____ ELEC. WMIS# _____ GAS MAIN WMIS# _____ GAS SERVICE WMIS# _____

SERVICE ADDRESS _____ UNIT# _____ CITY _____

STATE _____ ZIP _____ SUBDIVISION NAME _____ LOT # _____ COUNTY _____

RESPONSIBLE BILLING PARTY _____ WK PHONE#: _____ HM./MBL#: _____

MAILING ADDRESS _____ CITY _____ STATE ____ ZIP _____

FUTURE OCCUPANT DBA (DOING BUSINESS AS) _____

❒NEW BLDG. ❒EXISTING | ❒RESIDENTIAL ❒COMM./IND. | ❒APARTMENT ❒CONDO | ❒DUPLEX ❒ZERO-LOT-LINE | ❒TOWN HOME ❒REWIRE | ❒MODULAR HOME ❒ _____ | ❒FARM/RURAL

EASEMENTS REQUIRED ❒YES ❒NO APPL. TAKEN BY & DATE TAKEN _____ NEED BY DATE _____

ELECTRIC

ELECTRICAL CONTRACTOR/AGENT: _____

ADDRESS: _____ PHONE #: _____ MOBILE #: _____

TEMPORARY

VOLTAGE: _____ AMPS: _____ PHASE: _____ WIRE: _____ ❒OH ❒UG

CONNECT AT: ❒XMFER/ ❒PED./ ❒HAND. ❒POLE APPROXIMATE CHARGES:

❒NEEDS TRANSFORMER FOR TEMPORARY

PERMANENT

VOLTAGE: _____ AMPS: _____ PHASE: _____ WIRE: _____ ❒OH ❒UG ❒UG INSTALLED

TOTAL # OF METERS: _____ 1PH: _____ 3PH: _____ NETWORK /2PH.: _____

CT/OTHER: _____ # CONDUCTORS/PHASE: _____ SIZE EA CONDUCTOR: _____

LOAD: _____ KW FOR REWIRE: EXISTING AMPS _____ NEW AMPS _____ APPROXIMATE CHARGES: _____

RATES

❒ELECTRIC HEAT ❒GAS HEAT

❒ELECTRIC WATER HEAT ❒GAS WATER HEAT

❒ELECTRIC SPACE HEAT ❒GAS SPACE HEAT

RATE CODE: (Internal Use Only) Construction: _____ Permanent: _____

GAS

PLBG. CONTR.: _____ PHONE: _____

HTG. CONTR.: _____ PHONE: _____

INLET PRESSURE: _____

DELIVERY PRESSURE NEEDED: _____

PRESENT LOAD: _____ BTU'S NEW LOAD: _____ BTU'S

TOTAL # OF METERS: _____

HEATING: _____ BTU'S WATER HEATING: _____ BTU'S

COOKING: _____ BTU'S PROCESS: _____ BTU'S

FIREPLACE: _____ BTU'S OTHER: _____ BTU'S

TOTAL LOAD: (all meters) _____ BTU'S

TOTAL HEATED SPACE: _____

APPROXIMATE CHARGES: _____

CUSTOMER PLANS TO HAVE CORRUGATED STAINLESS STEEL TUBING (CSST) CONNECTED TO THE OUTLET OF THE METER.

❒ YES ❒ NO

Diagram of facility location.
Indicate North arrow and desired meter locations.

❒Check box if drawing is attached

REMARKS _____

Service installation by customer/electrician is subject to applicable income tax gross-up charge for the value of the cable.

Applicant shall locate and mark all privately owned underground facilities and systems (including but not limited to waterservices, culverts, irrigation systems, drain pipes, septic lines, and underground wiring) to conform with the current version of Recommended Marking Guidelines for Underground Utilities and the uniform color code established by the American Public Works Association, prior to MidAmerican Energy Company's construction.

Submittal of this form means you agree to the terms and conditions of the application. The applicant and MidAmerican Energy Company agree to conduct business using electronic means.

Please provide an email address if you have one: _____

The undersigned has read the back and front of this application and requests MidAmerican Energy to install and/or repair gas and/or electric facilities on the property listed above. The applicant agrees to comply with all applicable codes, rules, regulations, and MidAmerican Energy's tariffs, electric service manual, and gas service manual as filed with the appropriate state utilities board or commission. Failure to comply may result in charges.

_____ _____ or _____ _____

APPLICANT AGENT SIGNATURE DATE APPLICANT SIGNATURE DATE

See additional requirements and terms on the back of this application

APPENDIX A
Gas/Electric Service Facility Application Agreement (Back)

A drawing of the proposed Gas and/or Electric meter location must be included on the front of or with this application. The gas and/or electric meter location must be approved by your local MidAmerican Energy Customer contact **before any work is started**. MidAmerican Energy shall have the sole right to determine the location of the service lines and meters.

Applicants for service to commercial, industrial or residential buildings including multifamily dwellings, should obtain from MidAmerican Energy information regarding gas pressure, voltage, transformers, metering, etc. before starting construction.

Applicant will provide, without cost to MidAmerican Energy, such easements as are necessary for the installation and maintenance of the Company's facilities on private property within the area served.

The Applicant is responsible for ensuring that all gas piping and any other gas and/or electric equipment is properly installed and adjusted in accordance with local and national codes and MidAmerican Energy requirements. Consistent with MidAmerican Energy's Tariffs, no inspection by MidAmerican Energy, or failure to object to the applicant's installation, shall render MidAmerican Energy liable for any damage or injury caused by problems with the Applicant's equipment and facilities. Any inspection of Applicant's equipment or piping by MidAmerican Energy during service initiation, pilot lighting or leak investigation is for the sole purpose of determining whether MidAmerican Energy owned equipment is operating properly.

The installation of service is subject to MidAmerican's tariff on file with and as may be amended by the respective tariffs in Illinois, Iowa, Nebraska, and South Dakota.

If Applicant requires that the installation be completed during the winter construction season, an additional non-refundable charge may be billed. MidAmerican Energy reserves the right to determine when such winter construction season exists and the extra associated cost. Your local MidAmerican Energy Customer contact can provide current dates and costs.

Contact your Customer Technician for service installation costs for your service type. Installation costs are based on machine trenching in normal soil. An extra charge may be billed for unusual conditions incurred, such as rock and buried obstructions.

MidAmerican Energy will not replace sod nor be responsible for lawn or landscape restoration due to the installation of the gas and/or electric service lines.

MidAmerican Energy will schedule the installation of the gas and/or electric service lines after the Applicant's premise and site is prepared and Inspected for readiness by MidAmerican Energy. MidAmerican Energy will not be liable for any delays in the Installation of the gas and/or electric service facilities.

Note: Site readiness is determined by the following:

- ❒ The foundation shall be backfilled and the ground shall be within 4" of final grade where the gas and electric services are to be installed. Note: Meter site ground shall be backfilled and properly compacted to prevent settling.
- ❒ All material and obstructions shall be removed from the route and area where the gas and electric services and meters are to be installed.
- ❒ The gas riser bracket or meter bracket shall be installed where applicable. Fuel lines must be permanently marked with the service address.
- ❒ The electric meter socket shall be installed and entrance wiring approved by your local municipal inspector where applicable. Electric sockets must be permanently marked with the service address. MidAmerican Energy's Electric Service Manual describes the method for marking.
- ❒ Address and lot number shall be clearly posted at property prior to being scheduled.
- ❒ See your local MidAmerican Energy Customer contact for other possible requirements.

IOWA ONLY - The Applicant does hereby certify that the structure served by the gas and electric service line (if intended primarily for human occupancy and if completed after April 1, 1984) meets the energy conservation standards as contained in the Iowa Administrative Code Section 661-16.800 (103a) known as the "Iowa State Building Code Thermal and Lighting Efficiency Standards."

See MidAmerican Energy's Gas Service Manual and MidAmerican Energy's Electric Service Manual for installation requirements for your gas and electric services. Copies of both books are available to the Applicant upon request.

APPENDIX A
Gas Service Facility Application Agreement (Front)

65-7
11/12/07

MidAmerican Energy
GAS SERVICE FACILITY APPLICATION AGREEMENT

ACCOUNT NUMBER _____ GAS MAIN WMIS#_____GAS SERVICE WMIS# _____

SERVICE ADDRESS_____ UNIT#_____ CITY _____

STATE _____ZIP_____ SUBDIVISION NAME _____ LOT #_____COUNTY _____

RESPONSIBLE BILLING PARTY_____ WK PHONE#:_____HM./MBL#:_____

MAILING ADDRESS_____CITY_____STATE_____ ZIP_____

FUTURE OCCUPANT DBA (DOING BUSINESS AS) _____

❒NEW BLDG. ❒RESIDENTIAL ❒APARTMENT ❒DUPLEX ❒TOWN HOME ❒MODULAR HOME ❒FARM/RURAL ❒CONVERSION (propane, electric, other)

❒EXISTING ❒COMM./IND. ❒CONDO ❒SINGLE FAMILY ❒ _____

EASEMENTS REQUIRED ❒YES ❒NO APPL. TAKEN BY & DATE TAKEN_____ NEED BY DATE_____

GAS

PLBG. CONTR.: _____ PHONE: _____ **HTG. CONTR.:** _____ PHONE:_____

DELIVERY PRESSURE NEEDED: _____

PRESENT LOAD:_____BTU'S NEW LOAD:_____BTU'S TOTAL # OF METERS:_____

HEATING: _____ BTU'S WATER HEATING: _____ BTU'S COOKING:_____ BTU'S

PROCESS: _____ BTU'S FIREPLACE:_____ BTU'S OTHER: _____BTU'S

TOTAL LOAD: (all meters) _____BTU'S COOKING:_____ BTU'S: APPROXIMATE CHARGES:_____

DRYER:_____ BTU'S: _____

RATE

❒ELECTRIC HEAT ❒GAS HEAT

❒ELECTRIC WATER HEAT ❒GAS WATER HEAT

❒ELECTRIC SPACE HEAT ❒GAS SPACE HEAT

RATE CODE: **(Internal Use Only)** **Construction:** _____ **Permanent:** _____

CUSTOMER PLANS TO HAVE CORRUGATED STAINLESS STEEL TUBING (CSST) CONNECTED TO THE OUTLET OF THE METER. ❒ YES ❒ NO

Diagram of facility location. Indicate North arrow and desired meter locations.

❒Check box if drawing is attached

NOTE: MIDAMERICAN ENERGY WILL NOT BE RESPONSIBLE FOR DAMAGE TO CUSTOMER OWNED UNDERGROUND FACILITIES SUCH AS SEPTIC LINES, WATER LINES, SPRINKLER SYSTEMS, ELECTRIC WIRES, TELEPHONE LINES, CATV LINES, FUEL LINES, ETC., UNLESS SHOWN IN THIS DIAGRAM, AND MARKED ON THE PROPERTY.

The undersigned has read the back and front of this application and requests MidAmerican Energy to install and/or repair gas facilities on the property listed above. The applicant agrees to comply with all applicable codes, rules, regulations, and MidAmerican Energy's tariffs, and gas customer service information book as filed with the appropriate state utilities board or commission. Failure to comply may result in charges.

Submittal of this form means you agree to the terms and conditions of the application. The applicant and MidAmerican Energy Company agree to conduct business using electronic means.

Please provide an email address if you have one: _____

APPLICANT AGENT SIGNATURE DATE or APPLICANT SIGNATURE DATE

See additional requirements and terms on the back of this application

If you smell gas, contact MidAmerican Energy at:
1-800-595-5325

Effective: January 31, 2008

APPENDIX A
Gas Service Facility Application Agreement (Back)

A drawing of the proposed Gas meter location must be included on the front of or with this application. The gas meter location must be approved by your local MidAmerican Energy Customer contact **before any work is started**. MidAmerican Energy shall have the sole right to determine the location of the service lines and meters.

Applicants for service to commercial, industrial or residential buildings including multifamily dwellings, should obtain from MidAmerican Energy information regarding gas pressure, voltage, transformers, metering, etc. before starting construction.

Applicant will provide, without cost to MidAmerican Energy, such easements as are necessary for the installation and maintenance of the Company's facilities on private property within the area served.

The Applicant is responsible for ensuring that all gas piping and any other gas and/or electric equipment is properly installed and adjusted in accordance with local and national codes and MidAmerican Energy requirements. Consistent with the MidAmerican Energy's Tariffs, no inspection by MidAmerican Energy, or failure to object to the applicant's installation, shall render MidAmerican Energy liable for any damage or injury caused by problems with the Applicant's equipment and facilities. Any inspection of Applicant's equipment or piping by MidAmerican Energy during service initiation, pilot lighting or leak investigation is for the sole purpose of determining whether MidAmerican Energy owned equipment is operating properly.

Applicant shall locate and mark all privately owned underground facilities and systems (including but not limited to water services, culverts, irrigation systems, drain pipes, septic lines, and underground wiring) to conform with the current version of Recommended Marking Guidelines for Underground Utilities and the uniform color code established by the American Public Works Association, prior to MidAmerican Energy Company's construction.

The installation of service is subject to MidAmerican's tariff on file with and as may be amended by the respective tariffs in Illinois, Iowa, Nebraska, and South Dakota.

If Applicant requires that the installation be completed during the winter construction season, an additional non-refundable charge may be billed. MidAmerican Energy reserves the right to determine when such winter construction season exists and the extra associated cost. Your local MidAmerican Energy Customer Contact can provide current dates and costs.

Contact your Customer Technician for service installation costs for your service type. Installation costs are based on machine trenching in normal soil. An extra charge may be billed for unusual conditions incurred, such as rock and buried obstructions.

MidAmerican Energy will not replace sod nor be responsible for lawn or landscape restoration due to the installation of the gas service lines.

Applicant is required to contact MidAmerican Energy Company to unlock and complete a flow test of the gas line after the fuel line has been connected to the meter. Failure to do so will resulty in a disconnection of service and a possible revenue protection case.

MidAmerican Energy will schedule the installation of the gas service after the Applicant's premise and site is prepared and inspected for readiness by MidAmerican Energy. MidAmerican Energy will not be liable for any delays in the installation of the gas service.

Note: Site readiness is determined by the following:

- The foundation shall be backfilled and the ground shall be within 4" of final grade where the gas service is to be installed. Note: Meter site ground shall be backfilled and properly compacted to prevent settling.
- All material and obstructions shall be removed from the route and area where the gas service and meters are to be installed.
- The gas riser bracket or meter bracket shall be installed where applicable. Fuel lines must be permanently marked with the service address.
- Address and lot number shall be clearly posted at property prior to being scheduled.
- See your local MidAmerican Energy Customer contact for other possible requirements.

IOWA ONLY - The Applicant does hereby certify that the structure served by the gas service line (if intended primarily for human occupancy and if completed after April 1, 1984) meets the energy conservation standards as contained in the Iowa Administrative Code Section 661-16.800 (103a) known as the "Iowa State Building Code Thermal and Lighting Efficiency Standards."

See MidAmerican Energy's Gas Service Manual for installation requirements for your gas service. Copies of the book are available to the Applicant upon request.

APPENDIX A
South Dakota Gas Facility Agreement (Front)

64-93a
11/12/07

MidAmerican Energy
SOUTH DAKOTA GAS FACILITY AGREEMENT

Service Address: _____ Date Site Ready: _____
City/State/Zip: _____ Account Number: _____
Responsible Billing Party: _____ WMIS Number: _____
_____ Polygon Number: _____
Mail Address: _____ Map Number: _____
_____ County: _____
Phone No.: _____ Township/Range/Section: _____

❒ New Building ❒ Comm/Ind ❒ Apartment Building ❒ Twin Home Taken By: _____
❒ Existing ❒ Residential ❒ Duplex/Condo ❒ Mobile Home Phone No.: _____
Comments: _____

Gas Load (CFH)		Gas Facilities		Cost to Customer	
Heat		Delivery Press.		Excess Footage	
Water		No. of Meters		Non-Htg Serv Line	
Cooking		Meter Location		Obstruction Chg.	
Process		Service Line		Adverse Const. Chg.	
Other		Existing Main		Relocate	
TOTAL		Main Location		Sub-total	
				2% Excise Tax	
Heat Pump: ❒ Yes ❒ No				TOTAL	

Indicate North: **Diagram of Facility Location**

Applicant shall locate and mark all privately owned underground facilities and systems (including but not limited to water services, culverts, irrigation systems, drain pipes, septic lines, conduit and underground wiring) to conform with the current version of Recommended Marking Guidelines for Underground Utilities and the uniform color code established by the American Public Works Association, prior to MidAmerican Energy's construction. MidAmerican Energy will not be responsible for damage to unmarked or incorrectly marked privately owned underground facilities.

MidAmerican Energy will not replace sod nor be responsible for lawn, landscape, or hard surfaces (concrete, asphalt, etc.) restoration due to the installation/relocation of the gas facility.
Submittal of this form means you agree to the terms and conditions of the application. The applicant and MidAmerican Energy Company agree to conduct business using electronic means.

Please provide an email address if you have one: _____

The undersigned has read the back and front of this agreement and requests MidAmerican Energy to install and/or relocate its facilities on the property listed above.

SIGNATURE, APPLICANT'S AGENT DATE APPLICANT SIGNATURE DATE

APPENDIX A
South Dakota Gas Facility Agreement (Back)

The applicant agrees to comply with all applicable codes, rules, regulations, and MidAmerican Energy's Gas Service Manual and tarrifs as filed with the South Dakota Public Utility Commission. Failure to comply may result in charges.

A drawing of the proposed gas facility work **must** be included on the front of this application. The gas facility location must be approved by your local MidAmerican Energy Customer Technician **before any work is started**. MidAmerican Energy shall have the sole right to determine the location of the service line and meter.

Applicants for service to commercial, industrial or residential buildings, including multifamily dwellings, should obtain from MidAmerican Energy information regarding gas pressure, metering, etc. before starting construction.

Applicant will provide, without cost to MidAmerican Energy, such easements as are necessary for the installation and maintenance of MidAmerican Energy's facilities on private property within the area served.

The Applicant is responsible for ensuring that all gas piping and any other gas equipment is properly installed and adjusted in accordance with local and national codes and MidAmerican Energy requirements. Consistent with the MidAmerican Energy's Tariffs, no inspection by MidAmerican Energy, or failure to object to the applicant's installation, shall render MidAmerican Energy liable for any damage or injury caused by problems with the Applicant's equipment and facilities. Any inspection of Applicant's equipment or piping by MidAmerican Energy during service initiation, pilot lighting or leak investigation is for the sole purpose of determining whether MidAmerican Energy owned equipment is operating properly.

The installation/relocation of gas facilities is subject to MidAmerican's tariff as filed with the South Dakota Public Utilities Commission.

If Applicant requires that the facility work be completed during the winter construction season, an additional non-refundable charge may be billed. MidAmerican Energy reserves the right to determine when such winter construction season exists and the extra associated cost. Your local MidAmerican Energy Customer Technician can provide current dates and costs.

Contact your MidAmerican Energy Customer Technician for facility installation/relocation costs for your service type. Installation/relocation costs are based on machine trenching in normal soil. An extra charge may be billed for unusual conditions incurred, such as rock and buried obstructions.

MidAmerican Energy will schedule the installation/relocation of the gas facilities after the Applicant's premise and site is prepared and inspected for readiness by MidAmerican Energy. MidAmerican Energy will not be liable for any delays in the installation of the gas facilities.

Site readiness is determined by the following:

- ❒ The foundation shall be backfilled and the ground shall be within 4" of final grade where the gas facilities are to be installed.
- ❒ Meter site ground shall be backfilled and properly compacted to prevent settling.
- ❒ All material and obstructions shall be removed from the route and area where the gas facilities are to be installed.
- ❒ Address and lot number shall be clearly posted at property prior to work being scheduled.
- ❒ See your local MidAmerican Energy Customer Technician for other possible requirements.

MidAmerican Energy will turn on gas service when the customer piping is connected to the gas meter outlet and passes a no flow check. In addition for multiple meter sets, each fuel line must be permanently marked with the service address before service initiation.

See MidAmerican Energy's Gas Service Manual for installation/relocation requirements for your gas facilities. A copy is available upon request.

APPENDIX B
Customer Authorization Form (Front)

MidAmerican ENERGY.

18-2
5/26/05

Customer's Authorization

The work described below will be done at:

Street

City State Zip

The customer requests MidAmerican Energy to do the following work:

When the work described is complete, Customer promises to pay:

SUMMARY OF WORK	COST
	$
	$
Tax ____ %	$
TOTAL COST TO CUSTOMER	$

WMIS Number: _____

Bill Acct. Number: _____

Taken By: _____

Date: _____

BILL TO:

Name

Street

City State Zip

DATE REQUESTED

Indicate North: Diagram of Facility Location

Applicant shall locate and mark all privately owned underground facilities and systems (including but not limited to water services, culverts, irrigation systems, drain pipes, septic lines, and underground wiring) to conform with the current version of Recommended Marking Guidelines for Underground Utilities and the uniform color code established by the American Public Works Association, prior to MidAmerican Energy's construction.

Applicant shall be responsible for all lawn, landscape and asphalt restoration due to relocation/installation of the gas and/or electric facilities.

The undersigned has read the back and front of this agreement and requests MidAmerican Energy to install and/or relocate its facilities on the property listed above.

SIGNATURE, CUSTOMER'S AGENT DATE

CUSTOMER'S SIGNATURE DATE

APPENDIX B
Customer Authorization Form (Back)

A drawing of the proposed gas and/or electric facility work **must** be included on the front of this authorization. The gas and/or electric facility location must be approved by your local MidAmerican Energy Customer Technician **before any work is started**. MidAmerican Energy shall have the sole right to determine the location of the service lines and meters.

The applicant agrees to comply with all applicable codes, rules, regulations and MidAmerican Energy's tariffs, Electric Service Manual, and Gas Service Manual as filed with the approporiate state utilities board or commission. Failure to comply may result in charges.

Applicants for service to commercial, industrial or residential buildings including multifamily dwellings, should obtain from MidAmerican Energy information regarding gas pressure, voltage, transformers, metering, etc. before starting construction.

Applicant will provide, without cost to MidAmerican Energy, such easements as are necessary for the installation and maintenance of MidAmerican Energy's facilities on private property within the area served.

The Applicant is responsible for ensuring that all gas piping and any other gas and/or electric equipment is properly installed and adjusted in accordance with local and national codes and MidAmerican Energy requirements. Consistent with MidAmerican Energy's Tariffs, no inspection by MidAmerican Energy, or failure to object to the applicant's installation, shall render MidAmerican Energy liable for any damage or injury caused by problems with the Applicant's equipment and facilities. Any inspection of Applicant's equipment or piping by MidAmerican Energy during service initiation, pilot lighting or leak investigation is for the sole purpose of determining whether MidAmerican Energy owned equipment is operating properly.

The relocation/installation of facilities is subject to MidAmerican Energy's tariff on file with and as may be amended by the respective tariffs in Illinois, Iowa, Nebraska, and South Dakota.

If Applicant requires that the facility work be completed during the winter construction season, an additional non-refundable charge may be billed. MidAmerican Energy reserves the right to determine when such winter construction season exists and the extra associated cost. Your local MidAmerican Energy Customer Technician can provide current dates and costs.

Contact your MidAmerican Energy Customer Technician for facility work costs for your service type. Relocation/installation costs are based on machine trenching in normal soil. An extra charge may be billed for unusual conditions incurred, such as rock and buried obstructions.

MidAmerican Energy will schedule the relocation/installation of the gas and/or electric facilities after the Applicant's premise and site is prepared and inspected for readiness by MidAmerican Energy. MidAmerican Energy will not be liable for any delays in the relocation/installation of the gas and/or electric facilities.

Site readiness is determined by the following:

- ❒ The foundation shall be backfilled and the ground shall be within 4" of final grade where the gas and electric facilities are to be installed.
- ❒ Meter site ground shall be backfilled and properly compacted to prevent settling.
- ❒ All material and obstructions shall be removed from the route and area where the gas and electric facilities are to be installed.
- ❒ The gas riser bracket or meter bracket shall be installed where applicable. Fuel lines must be permanently marked with the service address.
- ❒ The electric meter socket shall be installed and entrance wiring approved by your local municipal inspector where applicable. Electric sockets must be permanently marked with the service address. MidAmerican Energy's Electric Service Manual describes the method for marking.
- ❒ Address and lot number shall be clearly posted at property prior to work being scheduled.
- ❒ See your local MidAmerican Energy Customer Technician for other possible requirements.

See MidAmerican Energy's Gas Service Manual and MidAmerican Energy's Electric Service Manual for relocation/installation requirements for your gas and electric facilities. Copies of both books are available to the Applicant upon request.